

TOTAL DOSE RADIATION TEST REPORT

ESA study: "Survey of Critical Components for 150 kRad Power Systems"

ESTEC Contract N° 22831/09/NL/AF refers

Contract extension up to 400 kRad as per CCN: ATGSP-CN-0004 IS. 3

Final Report

Part Type : IS-1825ASRH




Package : FP-20

Description : Single Event and Total Dose Hardened High Speed, Dual Output PWM

Manufacturer : Intersil

Alter Technology Purchase Order N° ATGSP-TL-09-JC-CO-9 dated 11/27/2009

Alter Technology Project Manager: David NUNEZ

Hirex reference :	HRX/TID/1016	Issue : 02	Date :	April 30 th , 2012
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Hirex Engineering	Total Dose Radiation Test Report		Ref.:	HRX/TID/1016
	IS-1825ASRH	Intersil	Issue:	02

CHANGE RECORD

ISSUE	DATE	PAGE	DESCRIPTION OF CHANGES
01	January 24th, 2012	All	Original Issue
01	April 30th, 2012	10	Conclusion updated: Note 2 and note 3 added to clarify device lost of functionality.

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TOTAL DOSE RADIATION TEST REPORT
on
Intersil
IS-1825ASRH
Single Event and Total Dose Hardened High Speed, Dual Output PWM

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1 Introduction

In the scope of the ESA study: "Survey of Critical Components for 150 kRad Power Systems", a total dose characterization test of the Intersil IS-1825ASRH, Single Event and Total Dose Hardened High Speed, Dual Output PWM has been performed with an accumulated dose of about 386.1 kRad(Si) at different dose rate of 36 & 100 & 300 rad(Si)/hour, in response to Alter Technology purchase order reference ATGSP-TL-09-JC-CO-9.

An Interim report, HRX/TID/0932 Issue 01, corresponding to the irradiation up to 154.8 Krad(Si) steps has been already provided.

The purpose of this test was to evaluate total dose withstanding of this component, to investigate its suitability for being used in space applications. This test was conducted on samples provided by Alter Technology.

Test has been performed in accordance with Hirex Engineering Radiation Test Plan HRX/SPE/0236 issue 3 dated 09/21/2010.

A complete set of electrical measurements together with graphical representation of measured parameters with respect to total dose received, are provided for all samples.

2 Applicable and Reference Documents

2.1 Applicable Documents

- Hirex Engineering Radiation Test Plan: HRX/SPE/0236 issue 3 dated 09/21/2010
- Alter Technology Proposal: ATGSP-OF-648/2009 Issue 1
- Minutes of Meeting: MM-SRP-ATG-0001 dated 29/10/2009
- Hirex internal specification: Total Ionizing dose test general procedure.
- SMD detail specification: 5962-02511

2.2 Reference Documents

- Intersil datasheet: FN9065.1 June 2005

3 Test Samples

13 samples of the IS-1825ASRH device were tested (6 ON + 6 OFF + 1 control sample).

12 samples (including the 6 samples already submitted to protons test: see report HRX/TID/0879) have been biased according to the flow diagram given in Figure 1.

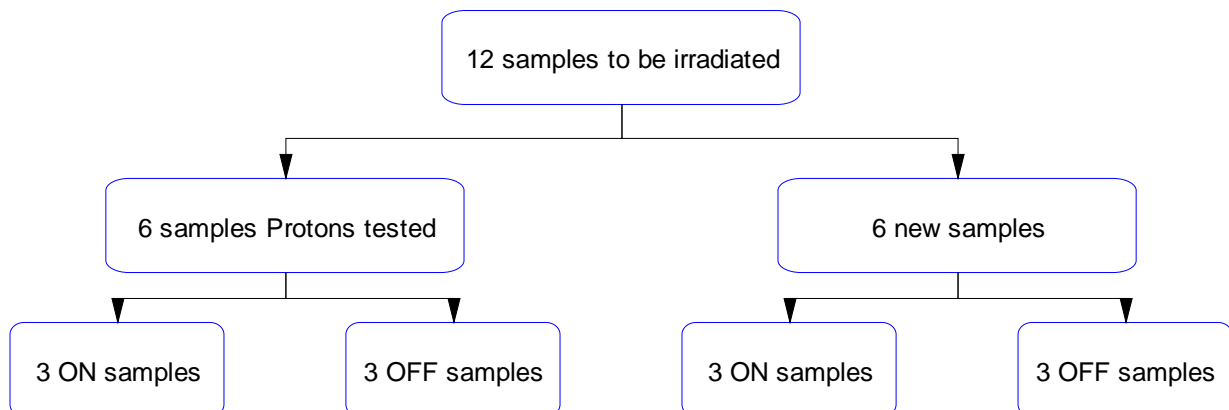


Figure 1 : Samples bias flow diagram

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Samples were allocated into the bias conditions during exposures and annealing as provided in the following table. The different samples groups are also identified for an easier plots reading.

SN	Samples Allocation	Samples Group Naming
6074	Control sample	REF
6078	Biased ON	ON_PROTON
6079	Biased ON	ON_PROTON
6080	Biased ON	ON_PROTON
6075	Biased OFF	OFF_PROTON
6076	Biased OFF	OFF_PROTON
6077	Biased OFF	OFF_PROTON
6036	Biased ON	ON_TID
6037	Biased ON	ON_TID
6039	Biased ON	ON_TID
6020	Biased OFF	OFF_TID
6022	Biased OFF	OFF_TID
6023	Biased OFF	OFF_TID

Identification of the IS-1825ASRH is given below:

Part Number: IS-1825ASRH

Top Marking: logo IS9-1825ASRH /PROTO delta

Bottom Marking: Serial

Date Code: -

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4 Experimental Conditions

4.1 Radiation Source Dose Rate and Annealing

The dose exposures were performed at UCL in Louvain (Belgium). In this irradiation facility, a Cobalt 60 source is used with the possibility to vary the dose rate by simply adjusting the distance to the source. During the dose exposures, devices under test have been irradiated in an ambient temperature of 24°C ±6°C.

The dose received by the devices has been controlled by the measurement of one Alanine pellet dosimeter placed onto the bias board.

Resulting test conditions are provided below.

Irradiation Steps requested	Pellet dosimetry data	Dose rate	Annealing steps	Temperature
kRad	kRad	Rad/h	Hours	°C
0	0			
10	10.8	36		Room
20	25.2	36		Room
50	48.6	36		Room
100	91.8	36		Room
150	148.5	100 [1]		Room
200	196.2	300 [1]		Room
250	240.3	300 [1]		Room
300	283.5	300 [1]		Room
350	324.9	300 [1]		Room
400	386.1	300 [1]		Room
			24	Room
			168	100

Note [1]: Due to the maintenance period planned at UCL at the end of December and in order to perform subsequent requested exposures steps up to 400 Krad(Si), the dose rates of several steps have been changed, in agreement with ESA, from 36 rad(Si)/h to 100 rad(Si)/h and from 100 rad(Si)/h to 300 rad(Si)/h as indicated.

4.2 Bias during Dose Exposures and Measurements conditions

4.2.1 Bias conditions

During exposures test board allowed to bias 6 samples in accordance with the electrical circuit provided in Figure 2.

6 other samples were biased OFF with all pins connected to ground.

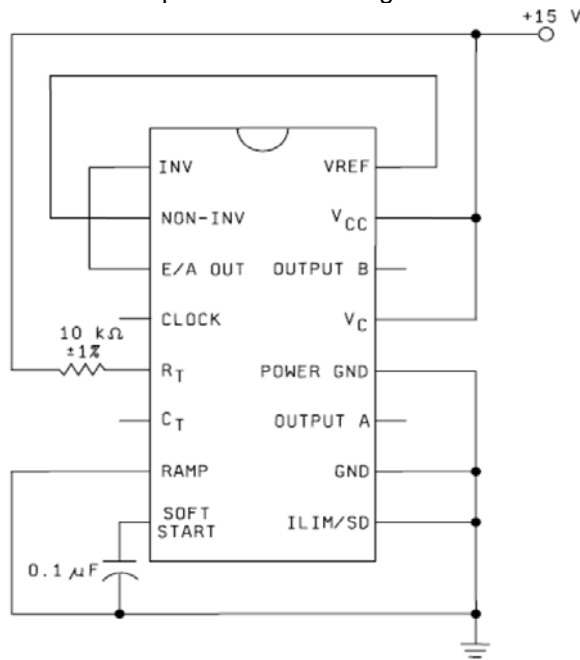


Figure 2 : Bias Conditions during Irradiation Exposures

4.2.2 Electrical Measurements

Electrical parameters test program principle for IS-1825ASRH is provided in Figure 3.

A HP4142 DC tester, a HP33120 and an Infinium Scope were used to perform required measurements.

A dedicated test fixture was designed to ensure proper measurement conditions. In addition a faraday cage was used to ensure optimum conditions for low level measurements.

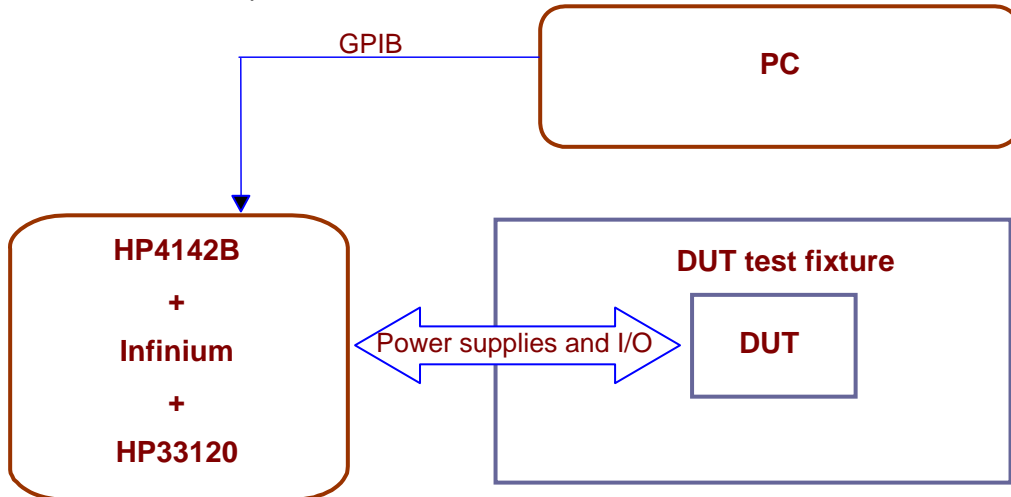


Figure 3 : IS-1825ASRH test program principle

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Electrical parameters test conditions and limits used for performing this test are given in Table 1.

N°	Parameter	Description	Conditions Vc, Vcc = 15V unless otherwise specified	Spec		Unit	Temp.
				Min	Max		
Reference Section							
1	Vref	Output Voltage	-	5	5.2	V	Room
2	Vrline	Line Regulation	12V<Vc, Vcc<20V	-15	15	mV	Room
3	Vrload	Load Regulation	1mA<Iout<10mA	-25	25	mV	Room
4	Isc	Output Short Circuit	Vref=0V	30	-	mA	Room
Oscillator Section							
5	FO	Initial Accuracy	-	340	425	kHz	Room
6	FPSRR	Voltage Stability	12V<Vc, Vcc <20V	-3	3	%	Room
7	VCLKH	Clock Out High Voltage	-	4	-	V	Room
8	VCLKL	Clock Out Low Voltage	-	-	0.2	V	Room
Error Amp Section							
9	VOS	Input Voltage	Vcm=3V, VO=3V	-10	10	mV	Room
10	IIB	Input Bias Current	Vcm=3V, VO=3V	-2	2	µA	Room
11	IOS	Input Offset Current	Vcm=3V, VO=3V	-2	2	µA	Room
12	AVOL	Open Loop Voltage Gain	1V < VO < 4V	60	-	dB	Room
13	CMRR	Common Mode Rejection Ratio	1.5V < Vcm < 4V	65	-	dB	Room
14	PSRR	Power Supply Rejection Ratio	12V<Vc, Vcc <20V	70	-	dB	Room
15	IOL	Output Sink Current	VE/Aout=1V	1	-	mA	Room
16	IOH	Output Source Current	VE/Aout=4V	-	-0.5	mA	Room
17	VOH1	High Output Voltage	IE/Aout=-0.5mA	4	-	V	Room
18	VOL1	Low Output Voltage	IE/Aout=1mA	-	1	V	Room
Pulse Width Modulation (PWM) Section							
19	Iramp	Ramp Bias Current	Vramp = 0V	-8	-	µA	Room
20	DCMAX	Maximum Duty Cycle	-	40	-	%	Room
21	Ramp Offset	E/A Out Zero DC Threshold Voltage	Vramp = 0V	0.81	-	V	Room
22	Tpd	Delay to output	VE/AOUT = 2.1 V, Voltage on ILIM/SD pin: 0 V to 2 V step, Note 1	-	80 Note 2	ns	Room
Soft Start Section							
23	ICHG	Charge Current	Soft Start Voltage = 2.5V	8	20	µA	Room
24	IDCHG	Discharge Current	Soft Start Voltage = 2.5V	0.1	0.5	mA	Room
Current Limit / Start Sequence / Fault Section							
25	VRS	Restart Threshold	-	-	0.5	V	Room
26	IBLIM	Ilim Bias Current	0V<VILIM<2V	-	15	µA	Room
27	Vlimit	Current Limit Threshold	-	0.85	1.15	V	Room
28	Vover	Over Current Threshold	-	1.05	1.26	V	Room

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N°	Parameter	Description	Conditions Vc, Vcc = 15V unless otherwise specified	Spec		Unit	Temp.
				Min	Max		
Output Section							
29	VSATL1	Output Low Saturation 1	Iout=20mA	-	0.8	V	Room
30	VSATL2	Output Low Saturation 2	Iout=200mA	-	2.2	V	Room
31	VSATH1	Output High Saturation 1	Iout=-20mA	10	-	V	Room
32	VSATH2	Output High Saturation 2	Iout=-200mA	9	-	V	Room
33	UVLOols	Under Voltage Lockout (UVLO) Output Low Saturation Voltage	Iout=20mA	-	1.2	V	Room
Undervoltage Lockout (UVLO) Section							
34	VSTART	Start Threshold Voltage	-	8.2	8.8	V	Room
35	VSTOP	Stop Threshold Voltage	-	7.6	8.4	V	Room
36	VHYS	Under Voltage Lockout (UVLO) Hysteresis	-	0.3	1.2	V	Room
Total Standby Current Section							
37	ISU	Startup Current	Vs=8V	-	300	µA	Room
38	ICC	Operating Supply Current	Inverting Input, Ramp and Current Lim / SD Voltage = 0V and Non-Inverting Input Voltage = 1V	-	36	mA	Room

Note 1: Propagation time to be measured on Output A only.

Note 2: limit of 80 ns is taken from Texas Instruments datasheet of similar device (no information available from Intersil).

Table 1 : Measured electrical parameters

5 Conclusion

A Total Ionizing Dose verification test was carried out by Hirex Engineering under Alter Technology contract on the Intersil IS-1825ASRH Single Event and Total Dose Hardened High Speed, Dual Output PWM in FP-20 package.

12 samples plus one control sample were used during testing. They were exposed to radiation using different dose rates of 36, 100 & 300 rad(Si)/hour at room temperature.

A summary of failed parameters is provided in the following table. The behavior of each parameter is reported for both biased On and biased Off samples of each group.

Parameters not listed remained within specification limits all along testing or had no limits specified. Detail test results are presented in next section.

Parameters	Failure Level between :		Annealing Recovery [Note 1]				Comments
			NA	No	Partial	Complete	
FO	ON_PROTON	No Failure					Marginally outside limit after annealing.
	ON_TID	No Failure	X				
	OFF_PROTON	No Failure	X				
	OFF_TID	No Failure	X				
IIBIN+	ON_PROTON	No Failure	X				
	ON_TID	No Failure	X				
	OFF_PROTON	No Failure	X				
	OFF_TID	91.8 & 148.5 kRad(Si)			X		
IIBIN-	ON_PROTON	No Failure	X				
	ON_TID	No Failure	X				
	OFF_PROTON	No Failure	X				
	OFF_TID	91.8 & 148.5 kRad(Si)			X		
DCMAXOUT A	ON_PROTON	148.5 & 196.2 kRad(Si)		X			[Note 2]
	ON_TID	No Failure	X				
	OFF_PROTON	No Failure	X				
	OFF_TID	No Failure	X				
DCMAXOUT B	ON_PROTON	48.6 & 91.8 kRad(Si)		X			[Note 3]
	ON_TID	No Failure	X				
	OFF_PROTON	No Failure	X				
	OFF_TID	91.8 & 148.5 kRad(Si)			X		
Ramp Offset	ON_PROTON	91.8 & 148.5 kRad(Si)		X			Marginally outside limit after annealing.
	ON_TID	No Failure					
	OFF_PROTON	No Failure	X				
	OFF_TID	No Failure	X				
Vlimit	ON_PROTON	25.5 & 48.6 kRad(Si)		X			Not measurable after 283Krad(Si) on SN6080
	ON_TID	91.8 & 148.5 kRad(Si)		X			
	OFF_PROTON	No Failure	X				
	OFF_TID	No Failure	X				
Vover	ON_PROTON	48.6 & 91.8 kRad(Si)		X			
	ON_TID	No Failure	X				
	OFF_PROTON	No Failure	X				
	OFF_TID	No Failure	X				

[Note 1]: **NA** = Not applicable, **No**: means no sample has recovered, **Partial**: means at least one sample has recovered, **Complete**: means all samples have recovered, **Rebound**: means rebound has been observed on at least one sample.

[Note 2]: SN6080 has lost functionality after 196Krad(Si) (unexpected low duty cycle) and duty cycle for this sample was no longer measurable after 386Krad(Si).

[Note 3]: SN6022 has lost functionality after 148.5Krad(Si) (unexpected low duty cycle).

SN6080 has lost functionality after 92Krad(Si) (unexpected low duty cycle), and duty cycle for this sample was no longer measurable after 386Krad(Si)

Table 2 : Summary of parameters failure levels

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6 Test Results

Test results including tables and graphics are provided in this section for each measured parameter.

Statistics are provided separately for biased ON & biased OFF samples of each group.

Failed values with respect to specified limits are highlighted in bold red font in the tables.

For each parameter, a drift calculation table is provided computing the drift between a given exposure step with respect to initial readings:

$$\Delta(\text{Parameter value}) = (\text{Parameter value}_{\text{POSTRAD}}) - (\text{Parameter value}_{\text{PRERAD}})$$

Note on tables and graphics:

In some cases, it may appear missing points in tables and graphs, this situation corresponds to a failure corresponding to an out of range measurement or a lost of functionality.

Parameter : Output Voltage : Vref

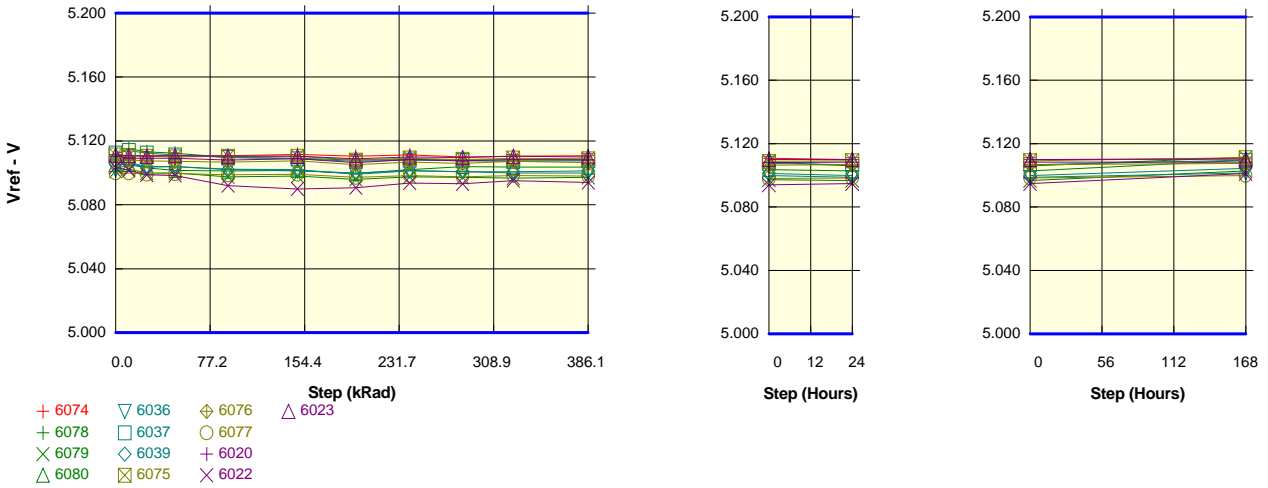
Test conditions :

Unit : V

Spec Limit Min : 5.000

Spec Limit Max : 5.200

Spec limits are represented in bold lines on the graphic.



Measurements

Vref	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	5.110	5.111	5.111	5.111	5.111	5.112	5.110	5.111	5.110	5.110	5.111	5.110	5.110
ON PROTON samples													
6078	5.112	5.115	5.113	5.112	5.110	5.109	5.108	5.108	5.108	5.108	5.108	5.106	5.112
6079	5.101	5.102	5.100	5.100	5.098	5.098	5.096	5.098	5.097	5.097	5.097	5.097	5.103
6080	5.105	5.105	5.103	5.102	5.101	5.102	5.100	5.102	5.104	5.104	5.104	5.103	5.110
Statistics													
Min	5.101	5.102	5.100	5.100	5.098	5.098	5.096	5.098	5.097	5.097	5.097	5.097	5.103
Max	5.112	5.115	5.113	5.112	5.110	5.109	5.108	5.108	5.108	5.108	5.108	5.106	5.112
Average	5.106	5.108	5.105	5.105	5.103	5.103	5.101	5.103	5.103	5.103	5.103	5.102	5.108
Sigma	0.004	0.005	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.005	0.005	0.004	0.004

Drift Calculation

Vref	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	3.6E-03	1.6E-03	800.1E-06	-2.0E-03	-2.4E-03	-3.6E-03	-3.2E-03	-3.6E-03	-3.6E-03	-3.2E-03	-5.6E-03	0.0E+00
6079	-	1.2E-03	-1.2E-03	-1.2E-03	-3.6E-03	-3.2E-03	-5.2E-03	-3.6E-03	-4.0E-03	-4.4E-03	-4.0E-03	-4.4E-03	1.6E-03
6080	-	0.0E+00	-2.0E-03	-3.6E-03	-4.0E-03	-3.6E-03	-5.6E-03	-3.2E-03	-1.2E-03	-1.6E-03	-1.6E-03	-2.4E-03	4.4E-03
Average	-	1.6E-03	-533.3E-06	-1.3E-03	-3.2E-03	-3.1E-03	-4.8E-03	-3.3E-03	-2.9E-03	-3.2E-03	-2.9E-03	-4.1E-03	2.0E-03
Sigma	-	1.5E-03	1.5E-03	1.8E-03	864.1E-06	498.8E-06	864.0E-06	188.7E-06	1.2E-03	1.2E-03	997.9E-06	1.3E-03	1.8E-03

Measurements

Vref	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	5.110	5.111	5.111	5.111	5.111	5.112	5.110	5.111	5.110	5.110	5.111	5.110	5.110
ON TID samples													
6036	5.102	5.106	5.104	5.104	5.102	5.102	5.099	5.101	5.101	5.100	5.100	5.099	5.102
6037	5.112	5.114	5.112	5.111	5.110	5.109	5.107	5.108	5.108	5.107	5.108	5.107	5.110
6039	5.106	5.106	5.104	5.104	5.102	5.101	5.100	5.102	5.101	5.101	5.101	5.100	5.104
Statistics													
Min	5.102	5.106	5.104	5.104	5.102	5.101	5.099	5.101	5.101	5.100	5.100	5.099	5.102
Max	5.112	5.114	5.112	5.111	5.110	5.109	5.107	5.108	5.108	5.107	5.108	5.107	5.110
Average	5.107	5.109	5.107	5.106	5.105	5.104	5.102	5.104	5.103	5.103	5.103	5.102	5.105
Sigma	0.004	0.004	0.004	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.004	0.003

Drift Calculation

Vref	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	3.6E-03	1.6E-03	2.0E-03	399.6E-06	0.0E+00	-2.8E-03	-800.1E-06	-1.2E-03	-2.0E-03	-2.0E-03	-3.2E-03	-400.1E-06
6037	-	1.6E-03	0.0E+00	-1.2E-03	-2.8E-03	-3.6E-03	-5.2E-03	-4.4E-03	-4.8E-03	-5.2E-03	-4.8E-03	-5.6E-03	-2.8E-03
6039	-	400.1E-06	-2.0E-03	-2.0E-03	-4.0E-03	-4.8E-03	-6.0E-03	-4.4E-03	-5.2E-03	-5.2E-03	-4.8E-03	-6.0E-03	-1.6E-03
Average	-	1.9E-03	-133.4E-06	-400.1E-06	-2.1E-03	-2.8E-03	-4.7E-03	-3.2E-03	-3.7E-03	-4.1E-03	-3.9E-03	-4.9E-03	-1.6E-03
Sigma	-	1.3E-03	1.5E-03	1.7E-03	1.9E-03	2.0E-03	1.4E-03	1.7E-03	1.8E-03	1.5E-03	1.3E-03	1.2E-03	979.8E-06

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Measurements

Vref	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	5.110	5.111	5.111	5.111	5.111	5.112	5.110	5.111	5.110	5.110	5.111	5.110	5.110
OFF PROTON samples													
6075	5.111	5.111	5.110	5.110	5.110	5.110	5.108	5.109	5.108	5.109	5.109	5.109	5.111
6076	5.108	5.108	5.108	5.107	5.107	5.108	5.105	5.107	5.106	5.107	5.106	5.107	5.108
6077	5.100	5.100	5.099	5.100	5.099	5.099	5.097	5.098	5.098	5.098	5.098	5.098	5.100
Statistics													
Min	5.100	5.100	5.099	5.100	5.099	5.099	5.097	5.098	5.098	5.098	5.098	5.098	5.100
Max	5.111	5.111	5.110	5.110	5.110	5.110	5.108	5.109	5.108	5.109	5.109	5.109	5.111
Average	5.106	5.106	5.106	5.106	5.105	5.106	5.103	5.105	5.104	5.105	5.104	5.105	5.106
Sigma	0.005	0.005	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

Drift Calculation

Vref	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-400.1E-06	-799.7E-06	-1.2E-03	-799.7E-06	-799.7E-06	-3.2E-03	-2.0E-03	-2.8E-03	-2.0E-03	-2.4E-03	-2.0E-03	0.0E+00
6076	-	0.0E+00	-399.6E-06	-799.7E-06	-1.2E-03	-399.6E-06	-2.8E-03	-1.2E-03	-2.0E-03	-799.7E-06	-1.6E-03	-1.2E-03	-399.6E-06
6077	-	0.0E+00	-800.1E-06	-400.1E-06	-1.2E-03	-800.1E-06	-2.8E-03	-1.6E-03	-2.4E-03	-1.6E-03	-2.0E-03	-1.6E-03	0.0E+00
Average	-	-133.4E-06	-666.5E-06	-799.8E-06	-1.1E-03	-666.5E-06	-2.9E-03	-1.6E-03	-2.4E-03	-1.5E-03	-2.0E-03	-1.6E-03	-133.2E-06
Sigma	-	188.6E-06	188.7E-06	326.5E-06	188.6E-06	188.7E-06	188.6E-06	326.7E-06	326.7E-06	499.0E-06	326.7E-06	326.7E-06	188.4E-06

Measurements

Vref	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	5.110	5.111	5.111	5.111	5.111	5.112	5.110	5.111	5.110	5.110	5.111	5.110	5.110
OFF TID samples													
6020	5.110	5.109	5.109	5.109	5.108	5.109	5.106	5.108	5.108	5.108	5.108	5.108	5.108
6022	5.104	5.102	5.099	5.098	5.092	5.090	5.091	5.094	5.093	5.095	5.094	5.095	5.101
6023	5.111	5.111	5.110	5.111	5.110	5.110	5.109	5.110	5.110	5.110	5.110	5.110	5.110
Statistics													
Min	5.104	5.102	5.099	5.098	5.092	5.090	5.091	5.094	5.093	5.095	5.094	5.095	5.101
Max	5.111	5.111	5.110	5.111	5.110	5.110	5.109	5.110	5.110	5.110	5.110	5.110	5.110
Average	5.108	5.107	5.106	5.106	5.103	5.103	5.102	5.104	5.103	5.105	5.104	5.104	5.107
Sigma	0.003	0.004	0.005	0.006	0.008	0.009	0.008	0.007	0.007	0.007	0.007	0.007	0.004

Drift Calculation

Vref	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-1.2E-03	-1.2E-03	-1.2E-03	-2.4E-03	-1.6E-03	-4.0E-03	-2.0E-03	-2.8E-03	-2.0E-03	-2.4E-03	-2.0E-03	-2.0E-03
6022	-	-2.0E-03	-4.8E-03	-5.2E-03	-11.6E-03	-13.6E-03	-12.8E-03	-10.0E-03	-10.4E-03	-8.4E-03	-9.6E-03	-8.8E-03	-2.4E-03
6023	-	-400.1E-06	-799.7E-06	-400.1E-06	-799.7E-06	-799.7E-06	-2.4E-03	-1.2E-03	-1.6E-03	-799.7E-06	-1.2E-03	-1.2E-03	-799.7E-06
Average	-	-1.2E-03	-2.3E-03	-2.3E-03	-4.9E-03	-5.3E-03	-6.4E-03	-4.4E-03	-4.9E-03	-3.7E-03	-4.4E-03	-4.0E-03	-1.7E-03
Sigma	-	653.1E-06	1.8E-03	2.1E-03	4.8E-03	5.9E-03	4.6E-03	4.0E-03	3.9E-03	3.3E-03	3.7E-03	3.4E-03	680.0E-06

Parameter : Line Regulation : Vrline

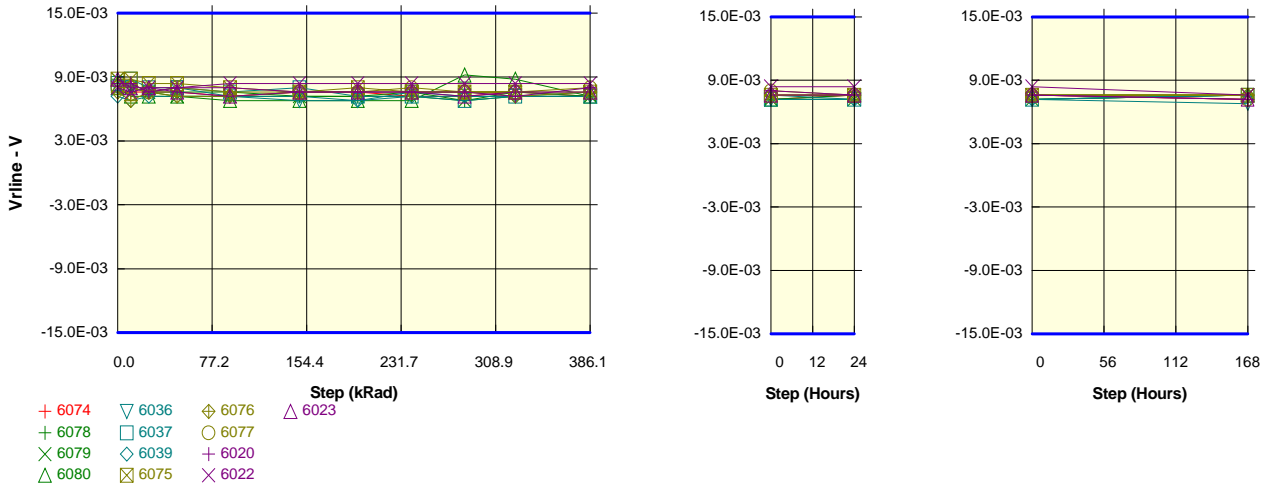
Test conditions : 12V<VS<20V

Unit : V

Spec Limit Min : -15.0E-03

Spec Limit Max : 15.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

Vrline	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	7.2E-03	7.6E-03	7.2E-03
ON PROTON samples													
6078	8.8E-03	8.4E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.2E-03	7.2E-03	6.8E-03	7.2E-03	7.2E-03	7.2E-03	7.6E-03
6079	8.8E-03	8.0E-03	7.6E-03	7.2E-03	7.2E-03	7.2E-03	7.2E-03	7.6E-03	6.8E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03
6080	8.0E-03	7.2E-03	7.2E-03	7.2E-03	6.8E-03	6.8E-03	6.8E-03	6.8E-03	9.2E-03	8.8E-03	7.2E-03	7.6E-03	7.6E-03
Statistics													
Min	8.0E-03	7.2E-03	7.2E-03	7.2E-03	6.8E-03	6.8E-03	6.8E-03	6.8E-03	6.8E-03	7.2E-03	7.2E-03	7.2E-03	7.6E-03
Max	8.8E-03	8.4E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	9.2E-03	8.8E-03	7.2E-03	7.6E-03	7.6E-03
Average	8.5E-03	7.9E-03	7.5E-03	7.3E-03	7.2E-03	7.1E-03	7.1E-03	7.2E-03	7.6E-03	7.9E-03	7.2E-03	7.3E-03	7.6E-03
Sigma	377.2E-06	499.1E-06	188.5E-06	188.5E-06	326.7E-06	188.8E-06	188.4E-06	326.8E-06	1.1E-03	679.8E-06	224.8E-09	188.6E-06	224.8E-09

Drift Calculation

Vrline	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-399.6E-06	-1.2E-03	-1.2E-03	-1.2E-03	-1.6E-03	-1.6E-03	-1.6E-03	-2.0E-03	-1.6E-03	-1.6E-03	-1.6E-03	-1.2E-03
6079	-	-800.1E-06	-1.2E-03	-1.6E-03	-1.6E-03	-1.6E-03	-1.6E-03	-1.2E-03	-2.0E-03	-1.2E-03	-1.6E-03	-1.6E-03	-1.2E-03
6080	-	-800.1E-06	-799.7E-06	-800.1E-06	-1.2E-03	-1.2E-03	-1.2E-03	-1.2E-03	1.2E-03	800.1E-06	-800.1E-06	-399.6E-06	-400.1E-06
Average	-	-666.6E-06	-1.1E-03	-1.2E-03	-1.3E-03	-1.5E-03	-1.5E-03	-1.3E-03	-933.2E-06	-666.5E-06	-1.3E-03	-1.2E-03	-933.2E-06
Sigma	-	188.8E-06	188.7E-06	326.5E-06	188.4E-06	188.4E-06	188.8E-06	188.5E-06	1.5E-03	1.0E-03	377.0E-06	565.8E-06	377.0E-06

Measurements

Vrline	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	7.2E-03	7.6E-03	7.2E-03
ON TID samples													
6036	8.0E-03	8.0E-03	7.6E-03	8.0E-03	7.2E-03	6.8E-03	6.8E-03	7.6E-03	7.2E-03	7.2E-03	7.2E-03	7.2E-03	6.8E-03
6037	8.4E-03	8.8E-03	8.0E-03	8.0E-03	7.6E-03	8.0E-03	7.2E-03	7.2E-03	6.8E-03	7.2E-03	7.2E-03	7.2E-03	7.6E-03
6039	7.2E-03	6.8E-03	7.2E-03	7.2E-03	7.2E-03	7.2E-03	6.8E-03	7.2E-03	7.2E-03	7.2E-03	7.6E-03	7.2E-03	7.6E-03
Statistics													
Min	7.2E-03	6.8E-03	7.2E-03	7.2E-03	7.2E-03	6.8E-03	6.8E-03	7.2E-03	6.8E-03	7.2E-03	7.2E-03	7.2E-03	6.8E-03
Max	8.4E-03	8.8E-03	8.0E-03	8.0E-03	7.6E-03	8.0E-03	7.2E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	7.2E-03	7.6E-03
Average	7.9E-03	7.9E-03	7.6E-03	7.7E-03	7.3E-03	7.3E-03	6.9E-03	7.3E-03	7.1E-03	7.2E-03	7.3E-03	7.2E-03	7.3E-03
Sigma	498.8E-06	821.9E-06	326.8E-06	377.2E-06	188.4E-06	499.2E-06	188.4E-06	188.6E-06	188.8E-06	224.8E-09	188.5E-06	224.8E-09	377.2E-06

Drift Calculation

Vrline	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	0.0E+00	-399.6E-06	0.0E+00	-799.7E-06	-1.2E-03	-1.2E-03	-400.1E-06	-799.7E-06	-799.7E-06	-799.7E-06	-800.1E-06	-1.2E-03
6037	-	400.1E-06	-399.6E-06	-400.1E-06	-800.1E-06	-399.6E-06	-1.2E-03	-1.2E-03	-1.6E-03	-1.2E-03	-1.2E-03	-1.2E-03	-800.1E-06
6039	-	-400.1E-06	-476.8E-09	-476.8E-09	0.0E+00	-476.8E-09	-400.1E-06	-476.8E-09	0.0E+00	0.0E+00	399.6E-06	0.0E+00	399.6E-06
Average	-	0.0E+00	-266.6E-06	-133.5E-06	-533.3E-06	-533.4E-06	-933.3E-06	-533.6E-06	-800.0E-06	-666.6E-06	-533.4E-06	-666.8E-06	-533.6E-06
Sigma	-	326.7E-06	188.1E-06	188.5E-06	377.1E-06	498.8E-06	377.1E-06	498.8E-06	653.3E-06	498.9E-06	679.7E-06	499.0E-06	679.8E-06

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

Vrline	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	7.2E-03	7.6E-03	7.2E-03
OFF PROTON samples													
6075	8.8E-03	8.8E-03	8.4E-03	8.4E-03	8.0E-03	7.6E-03	8.0E-03	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.6E-03
6076	7.6E-03	6.8E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.6E-03
6077	8.0E-03	8.0E-03	7.6E-03	8.0E-03	7.6E-03	7.6E-03	7.6E-03	8.0E-03	7.6E-03	7.6E-03	8.0E-03	7.6E-03	7.2E-03
Statistics													
Min	7.6E-03	6.8E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.2E-03
Max	8.8E-03	8.8E-03	8.4E-03	8.4E-03	8.0E-03	7.6E-03	8.0E-03	8.0E-03	7.6E-03	7.6E-03	8.0E-03	7.6E-03	7.6E-03
Average	8.1E-03	7.9E-03	7.9E-03	7.9E-03	7.6E-03	7.6E-03	7.7E-03	7.7E-03	7.6E-03	7.5E-03	7.7E-03	7.6E-03	7.5E-03
Sigma	498.8E-06	821.9E-06	377.2E-06	499.0E-06	326.7E-06	0.0E+00	188.4E-06	188.6E-06	67.2E-12	188.6E-06	188.5E-06	0.0E+00	188.5E-06

Drift Calculation

Vrline	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	0.0E+00	-400.1E-06	-400.1E-06	-800.1E-06	-1.2E-03	-800.1E-06	-1.2E-03	-1.2E-03	-1.2E-03	-1.2E-03	-1.2E-03	-1.2E-03
6076	-	-800.1E-06	-476.8E-09	-400.5E-06	-400.5E-06	-476.8E-09	0.0E+00	-476.8E-09	0.0E+00	-400.5E-06	-476.8E-09	-476.8E-09	-476.8E-09
6077	-	476.8E-09	-400.1E-06	0.0E+00	-400.1E-06	-400.1E-06	-399.6E-06	0.0E+00	-399.6E-06	-400.1E-06	0.0E+00	-400.1E-06	-799.7E-06
Average	-	-266.6E-06	-266.9E-06	-266.9E-06	-533.6E-06	-533.6E-06	-399.9E-06	-400.2E-06	-533.1E-06	-666.9E-06	-400.1E-06	-533.6E-06	-666.6E-06
Sigma	-	377.3E-06	188.4E-06	188.7E-06	188.5E-06	498.8E-06	326.7E-06	565.7E-06	498.8E-06	377.1E-06	565.4E-06	498.8E-06	498.5E-06

Measurements

Vrline	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	7.2E-03	7.6E-03	7.2E-03
OFF TID samples													
6020	8.4E-03	8.4E-03	7.6E-03	8.0E-03	8.0E-03	7.6E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	8.0E-03	7.6E-03	7.2E-03
6022	8.0E-03	7.6E-03	8.0E-03	8.0E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	7.6E-03
6023	8.8E-03	8.0E-03	8.0E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03
Statistics													
Min	8.0E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.6E-03	7.6E-03	7.6E-03	7.2E-03	7.2E-03	7.6E-03	7.6E-03	7.2E-03
Max	8.8E-03	8.4E-03	8.0E-03	8.0E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	8.4E-03	7.6E-03
Average	8.4E-03	8.0E-03	7.9E-03	7.9E-03	7.9E-03	7.9E-03	7.9E-03	7.9E-03	7.7E-03	7.7E-03	8.0E-03	7.9E-03	7.3E-03
Sigma	326.5E-06	326.7E-06	188.4E-06	188.7E-06	499.0E-06	377.1E-06	377.2E-06	377.1E-06	499.0E-06	498.8E-06	326.7E-06	377.1E-06	188.5E-06

Drift Calculation

Vrline	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	0.0E+00	-799.7E-06	-399.6E-06	-400.1E-06	-799.7E-06	-800.1E-06	-799.7E-06	-800.1E-06	-1.2E-03	-400.1E-06	-799.7E-06	-1.2E-03
6022	-	-400.5E-06	-476.8E-09	-476.8E-09	399.6E-06	399.6E-06	399.6E-06	399.6E-06	399.6E-06	399.6E-06	399.6E-06	399.6E-06	-400.5E-06
6023	-	-800.1E-06	-800.1E-06	-1.2E-03	-1.6E-03	-1.2E-03	-1.2E-03	-1.2E-03	-1.6E-03	-1.2E-03	-1.2E-03	-1.2E-03	-1.6E-03
Average	-	-400.2E-06	-533.4E-06	-533.4E-06	-533.6E-06	-533.4E-06	-533.6E-06	-533.4E-06	-666.9E-06	-666.8E-06	-400.2E-06	-533.4E-06	-1.1E-03
Sigma	-	326.7E-06	376.8E-06	498.8E-06	821.9E-06	679.7E-06	679.8E-06	679.7E-06	821.9E-06	754.0E-06	653.1E-06	679.7E-06	498.7E-06

Parameter : Load Regulation : Vload

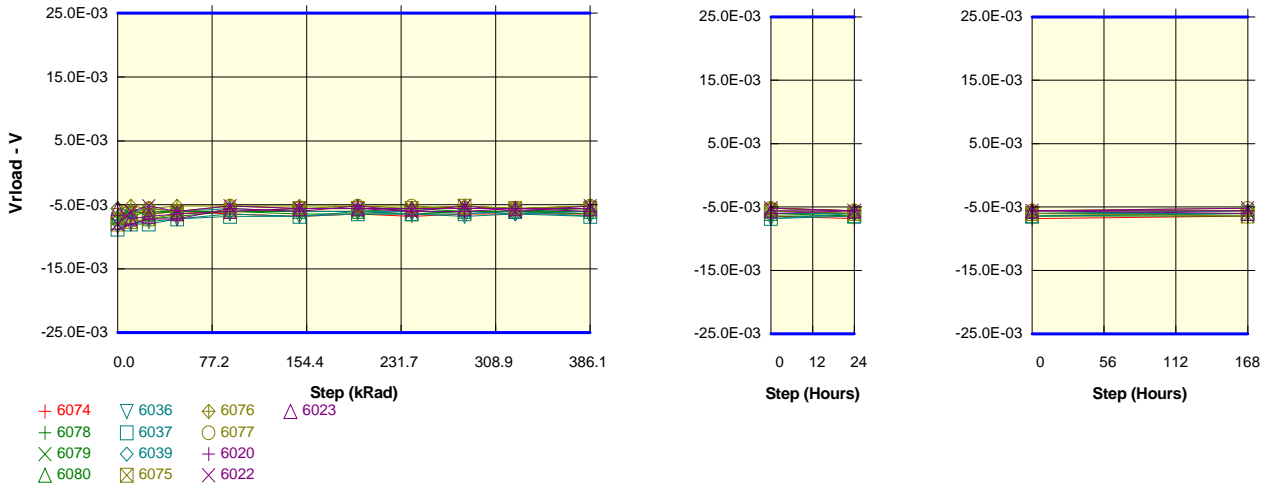
Test conditions : 1mA<IOUT<10mA

Unit : V

Spec Limit Min : -25.0E-03

Spec Limit Max : 25.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

Vrload	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-6.4E-03	-6.0E-03	-6.4E-03	-6.0E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.4E-03	-6.4E-03	-6.8E-03	-6.4E-03
ON PROTON samples													
6078	-8.0E-03	-8.0E-03	-7.2E-03	-6.8E-03	-6.0E-03	-6.4E-03	-6.4E-03	-6.4E-03	-6.0E-03	-6.0E-03	-6.4E-03	-6.4E-03	-6.4E-03
6079	-7.2E-03	-6.8E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-5.6E-03	-6.0E-03	-6.0E-03	-5.6E-03	-6.0E-03	-5.6E-03
6080	-6.8E-03	-6.0E-03	-6.4E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.4E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.4E-03	-6.0E-03
Statistics													
Min	-8.0E-03	-8.0E-03	-7.2E-03	-6.8E-03	-6.0E-03	-6.4E-03	-6.4E-03	-6.4E-03	-6.0E-03	-6.0E-03	-6.4E-03	-6.4E-03	-6.4E-03
Max	-6.8E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-5.6E-03	-6.0E-03	-6.0E-03	-5.6E-03	-6.0E-03	-5.6E-03
Average	-7.3E-03	-6.9E-03	-6.5E-03	-6.3E-03	-6.0E-03	-6.1E-03	-6.1E-03	-6.1E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.3E-03	-6.0E-03
Sigma	498.9E-06	821.9E-06	499.0E-06	377.2E-06	106.3E-12	188.6E-06	188.4E-06	377.1E-06	224.8E-09	224.8E-09	326.5E-06	188.6E-06	326.7E-06

Drift Calculation

Vrload	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	0.0E+00	799.7E-06	1.2E-03	2.0E-03	1.6E-03	1.6E-03	1.6E-03	2.0E-03	2.0E-03	1.6E-03	1.6E-03	1.6E-03
6079	-	400.5E-06	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.2E-03	1.6E-03	1.2E-03	1.2E-03	1.6E-03	1.2E-03	1.6E-03
6080	-	799.7E-06	399.6E-06	799.7E-06	799.7E-06	799.7E-06	799.7E-06	399.6E-06	799.7E-06	799.7E-06	799.7E-06	399.6E-06	799.7E-06
Average	-	400.1E-06	799.8E-06	1.1E-03	1.3E-03	1.2E-03	1.2E-03	1.3E-03	1.3E-03	1.3E-03	1.1E-03	1.1E-03	1.3E-03
Sigma	-	326.5E-06	326.8E-06	188.7E-06	498.9E-06	326.7E-06	326.8E-06	566.0E-06	499.1E-06	499.1E-06	377.4E-06	499.0E-06	377.3E-06

Measurements

Vrload	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-6.4E-03	-6.0E-03	-6.4E-03	-6.0E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.4E-03	-6.4E-03	-6.8E-03	-6.4E-03
ON TID samples													
6036	-8.4E-03	-8.0E-03	-7.6E-03	-7.2E-03	-6.4E-03	-6.8E-03	-6.0E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.8E-03	-6.0E-03	-6.0E-03
6037	-8.8E-03	-8.0E-03	-8.0E-03	-7.2E-03	-6.8E-03	-6.8E-03	-6.4E-03	-6.4E-03	-6.4E-03	-6.0E-03	-6.8E-03	-6.4E-03	-6.0E-03
6039	-5.6E-03	-6.0E-03	-5.6E-03	-6.0E-03	-5.6E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.4E-03	-6.0E-03	-6.0E-03	-5.6E-03
Statistics													
Min	-8.8E-03	-8.0E-03	-8.0E-03	-7.2E-03	-6.8E-03	-6.8E-03	-6.4E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.0E-03
Max	-5.6E-03	-6.0E-03	-5.6E-03	-6.0E-03	-5.6E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-5.6E-03
Average	-7.6E-03	-7.3E-03	-7.1E-03	-6.8E-03	-6.3E-03	-6.5E-03	-6.1E-03	-6.3E-03	-6.4E-03	-6.3E-03	-6.5E-03	-6.1E-03	-5.9E-03
Sigma	1.4E-03	942.7E-06	1.0E-03	565.7E-06	498.7E-06	377.1E-06	188.7E-06	188.5E-06	326.7E-06	188.6E-06	377.1E-06	188.6E-06	188.6E-06

Drift Calculation

Vrload	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	400.5E-06	800.6E-06	1.2E-03	2.0E-03	1.6E-03	2.4E-03	2.0E-03	1.6E-03	2.0E-03	1.6E-03	2.4E-03	2.4E-03
6037	-	800.1E-06	800.1E-06	1.6E-03	2.0E-03	2.0E-03	2.4E-03	2.4E-03	2.4E-03	2.8E-03	2.0E-03	2.4E-03	2.8E-03
6039	-	-400.1E-06	0.0E+00	-400.1E-06	-476.8E-09	-400.1E-06	-400.1E-06	-400.1E-06	-400.1E-06	-800.1E-06	-400.1E-06	-400.1E-06	0.0E+00
Average	-	266.9E-06	533.6E-06	800.1E-06	1.3E-03	1.1E-03	1.5E-03	1.3E-03	1.2E-03	1.3E-03	1.1E-03	1.5E-03	1.7E-03
Sigma	-	499.0E-06	377.3E-06	864.2E-06	943.2E-06	1.1E-03	1.3E-03	1.2E-03	1.2E-03	1.5E-03	1.0E-03	1.3E-03	1.2E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

Vrload	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-6.4E-03	-6.0E-03	-6.4E-03	-6.0E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.4E-03	-6.4E-03	-6.8E-03	-6.4E-03
OFF PROTON samples													
6075	-8.0E-03	-7.6E-03	-7.2E-03	-6.4E-03	-6.0E-03	-5.6E-03	-5.6E-03	-5.6E-03	-5.2E-03	-5.6E-03	-5.6E-03	-6.0E-03	-6.4E-03
6076	-5.6E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.2E-03	-5.2E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.6E-03	-5.6E-03
6077	-7.2E-03	-6.4E-03	-5.6E-03	-6.0E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.2E-03	-5.6E-03	-5.6E-03	-5.2E-03	-5.6E-03	-5.2E-03
Statistics													
Min	-8.0E-03	-7.6E-03	-7.2E-03	-6.4E-03	-6.0E-03	-5.6E-03	-5.6E-03	-5.6E-03	-5.6E-03	-5.6E-03	-5.6E-03	-6.0E-03	-6.4E-03
Max	-5.6E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.2E-03	-5.2E-03	-5.2E-03	-5.2E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.6E-03	-5.2E-03
Average	-6.9E-03	-6.4E-03	-6.1E-03	-5.9E-03	-5.5E-03	-5.5E-03	-5.3E-03	-5.5E-03	-5.3E-03	-5.6E-03	-5.3E-03	-5.7E-03	-5.7E-03
Sigma	997.7E-06	979.8E-06	754.4E-06	499.0E-06	377.1E-06	188.4E-06	188.6E-06	188.6E-06	188.6E-06	188.6E-06	0.0E+00	188.6E-06	498.8E-06

Drift Calculation

Vrload	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	400.1E-06	799.7E-06	1.6E-03	2.0E-03	2.4E-03	2.4E-03	2.4E-03	2.8E-03	2.4E-03	2.4E-03	2.0E-03	1.6E-03
6076	-	400.1E-06	0.0E+00	400.1E-06	400.1E-06	399.6E-06	400.1E-06	0.0E+00	400.1E-06	0.0E+00	400.1E-06	0.0E+00	0.0E+00
6077	-	799.7E-06	1.6E-03	1.2E-03	2.0E-03	1.6E-03	2.0E-03	2.0E-03	1.6E-03	1.6E-03	2.0E-03	1.6E-03	2.0E-03
Average	-	533.3E-06	799.8E-06	1.1E-03	1.5E-03	1.5E-03	1.6E-03	1.5E-03	1.6E-03	1.3E-03	1.6E-03	1.2E-03	1.2E-03
Sigma	-	188.4E-06	653.1E-06	498.8E-06	754.0E-06	822.1E-06	864.0E-06	1.0E-03	979.8E-06	997.7E-06	864.0E-06	864.0E-06	864.1E-06

Measurements

Vrload	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-6.4E-03	-6.0E-03	-6.4E-03	-6.0E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.8E-03	-6.4E-03	-6.4E-03	-6.4E-03	-6.8E-03	-6.4E-03
OFF TID samples													
6020	-8.8E-03	-8.0E-03	-7.2E-03	-7.2E-03	-5.6E-03	-6.0E-03	-5.2E-03	-6.0E-03	-6.0E-03	-5.6E-03	-6.0E-03	-5.6E-03	-5.6E-03
6022	-8.0E-03	-6.0E-03	-5.2E-03	-6.0E-03	-5.2E-03	-5.6E-03	-5.6E-03	-6.0E-03	-5.2E-03	-6.0E-03	-5.2E-03	-5.6E-03	-5.2E-03
6023	-5.6E-03	-7.2E-03	-6.8E-03	-6.4E-03	-6.0E-03	-5.6E-03	-5.6E-03	-5.6E-03	-5.6E-03	-5.6E-03	-5.6E-03	-5.6E-03	-6.0E-03
Statistics													
Min	-8.8E-03	-8.0E-03	-7.2E-03	-7.2E-03	-6.0E-03	-6.0E-03	-5.6E-03	-6.0E-03	-6.0E-03	-6.0E-03	-6.0E-03	-5.6E-03	-6.0E-03
Max	-5.6E-03	-6.0E-03	-5.2E-03	-6.0E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.6E-03	-5.2E-03	-5.6E-03	-5.2E-03
Average	-7.5E-03	-7.1E-03	-6.4E-03	-6.5E-03	-5.6E-03	-5.7E-03	-5.5E-03	-5.9E-03	-5.6E-03	-5.7E-03	-5.6E-03	-5.6E-03	-5.6E-03
Sigma	1.4E-03	821.9E-06	863.9E-06	498.8E-06	326.7E-06	188.6E-06	188.6E-06	188.5E-06	326.5E-06	188.6E-06	326.5E-06	0.0E+00	326.7E-06

Drift Calculation

Vrload	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	800.1E-06	1.6E-03	1.6E-03	3.2E-03	2.8E-03	3.6E-03	2.8E-03	2.8E-03	3.2E-03	2.8E-03	3.2E-03	3.2E-03
6022	-	2.0E-03	2.8E-03	2.0E-03	2.8E-03	2.4E-03	2.4E-03	2.0E-03	2.8E-03	2.0E-03	2.8E-03	2.4E-03	2.8E-03
6023	-	-1.6E-03	-1.2E-03	-799.7E-06	-400.1E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-400.1E-06
Average	-	400.1E-06	1.1E-03	933.5E-06	1.9E-03	1.7E-03	2.0E-03	1.6E-03	1.9E-03	1.7E-03	1.9E-03	1.9E-03	1.9E-03
Sigma	-	1.5E-03	1.7E-03	1.2E-03	1.6E-03	1.2E-03	1.5E-03	1.2E-03	1.3E-03	1.3E-03	1.3E-03	1.4E-03	1.6E-03

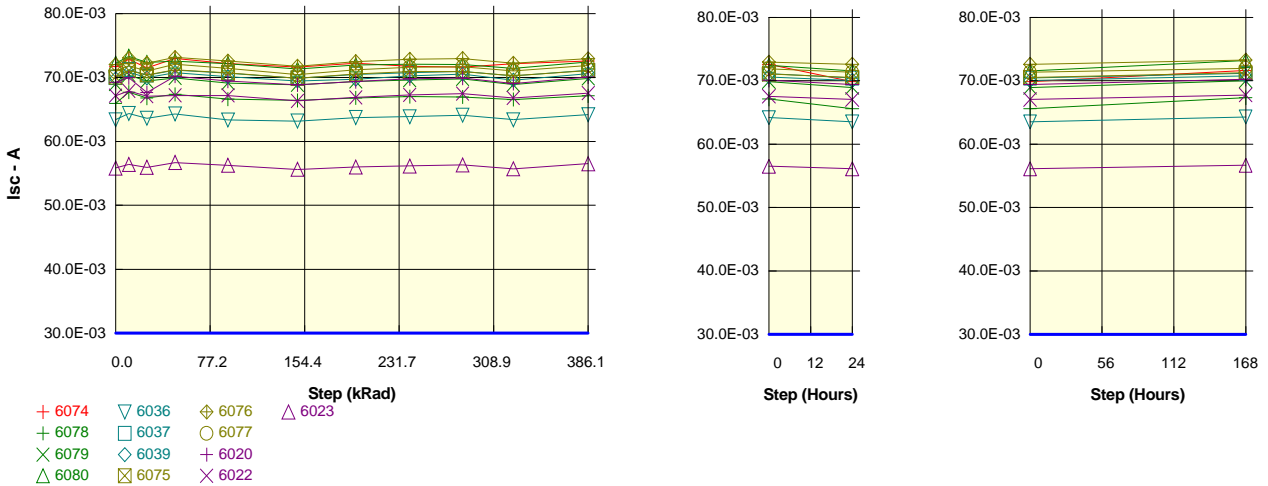
Parameter : Output Short Circuit : Isc

Test conditions : VREF=0V

Unit : A

Spec Limit Min : 30.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

Isc	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	71.7E-03	72.9E-03	71.5E-03	73.0E-03	72.2E-03	71.7E-03	72.2E-03	71.8E-03	71.6E-03	72.2E-03	72.6E-03	69.9E-03	71.7E-03
ON PROTON samples													
6078	66.0E-03	67.7E-03	66.8E-03	67.4E-03	66.6E-03	66.4E-03	66.8E-03	67.0E-03	67.0E-03	66.6E-03	67.1E-03	65.6E-03	67.4E-03
6079	69.0E-03	70.4E-03	69.4E-03	69.9E-03	69.2E-03	68.9E-03	69.4E-03	69.6E-03	69.8E-03	68.9E-03	69.9E-03	68.9E-03	70.0E-03
6080	72.3E-03	73.3E-03	72.3E-03	72.6E-03	72.2E-03	71.3E-03	72.0E-03	72.1E-03	72.0E-03	71.5E-03	72.5E-03	71.6E-03	73.2E-03
Statistics													
Min	66.0E-03	67.7E-03	66.8E-03	67.4E-03	66.6E-03	66.4E-03	66.8E-03	67.0E-03	67.0E-03	66.6E-03	67.1E-03	65.6E-03	67.4E-03
Max	72.3E-03	73.3E-03	72.3E-03	72.6E-03	72.2E-03	71.3E-03	72.0E-03	72.1E-03	72.0E-03	71.5E-03	72.5E-03	71.6E-03	73.2E-03
Average	69.1E-03	70.5E-03	69.5E-03	70.0E-03	69.3E-03	68.9E-03	69.4E-03	69.6E-03	69.6E-03	69.0E-03	69.8E-03	68.7E-03	70.2E-03
Sigma	2.6E-03	2.3E-03	2.3E-03	2.1E-03	2.3E-03	2.0E-03	2.1E-03	2.1E-03	2.1E-03	2.0E-03	2.2E-03	2.4E-03	2.4E-03

Drift Calculation

Isc	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	1.7E-03	814.0E-06	1.4E-03	652.0E-06	444.0E-06	832.0E-06	1.0E-03	984.0E-06	584.0E-06	1.2E-03	-356.0E-06	1.4E-03
6079	-	1.4E-03	442.0E-06	942.0E-06	150.0E-06	-140.0E-06	382.0E-06	608.0E-06	778.0E-06	-116.0E-06	858.0E-06	-60.0E-06	1.0E-03
6080	-	1.1E-03	94.0E-06	322.0E-06	-86.0E-06	-930.0E-06	-270.0E-06	-184.0E-06	-214.0E-06	-790.0E-06	208.0E-06	-694.0E-06	934.0E-06
Average	-	1.4E-03	450.0E-06	891.3E-06	238.7E-06	-208.7E-06	314.7E-06	490.0E-06	516.0E-06	-107.3E-06	740.7E-06	-370.0E-06	1.1E-03
Sigma	-	269.6E-06	294.0E-06	445.6E-06	307.7E-06	563.0E-06	452.4E-06	509.0E-06	523.0E-06	561.0E-06	395.8E-06	259.0E-06	193.4E-06

Measurements

Isc	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	71.7E-03	72.9E-03	71.5E-03	73.0E-03	72.2E-03	71.7E-03	72.2E-03	71.8E-03	71.6E-03	72.2E-03	72.6E-03	69.9E-03	71.7E-03
ON TID samples													
6036	63.4E-03	64.4E-03	63.6E-03	64.3E-03	63.4E-03	63.2E-03	63.8E-03	63.9E-03	64.1E-03	63.4E-03	64.2E-03	63.5E-03	64.3E-03
6037	70.0E-03	71.3E-03	70.4E-03	71.2E-03	70.7E-03	69.9E-03	70.5E-03	70.8E-03	71.0E-03	70.3E-03	71.1E-03	70.4E-03	71.2E-03
6039	69.8E-03	70.9E-03	70.0E-03	70.8E-03	70.1E-03	69.5E-03	69.7E-03	70.3E-03	70.6E-03	69.6E-03	70.6E-03	70.1E-03	70.8E-03
Statistics													
Min	63.4E-03	64.4E-03	63.6E-03	64.3E-03	63.4E-03	63.2E-03	63.8E-03	63.9E-03	64.1E-03	63.4E-03	64.2E-03	63.5E-03	64.3E-03
Max	70.0E-03	71.3E-03	70.4E-03	71.2E-03	70.7E-03	69.9E-03	70.5E-03	70.8E-03	71.0E-03	70.3E-03	71.1E-03	70.4E-03	71.2E-03
Average	67.7E-03	68.8E-03	68.0E-03	68.7E-03	68.1E-03	67.5E-03	68.0E-03	68.3E-03	68.5E-03	67.8E-03	68.7E-03	68.0E-03	68.7E-03
Sigma	3.1E-03	3.1E-03	3.1E-03	3.1E-03	3.3E-03	3.1E-03	3.0E-03	3.1E-03	3.1E-03	3.1E-03	3.2E-03	3.2E-03	3.1E-03

Drift Calculation

Isc	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	988.0E-06	228.0E-06	904.0E-06	-30.0E-06	-200.0E-06	356.0E-06	486.0E-06	708.0E-06	4.0E-06	808.0E-06	132.0E-06	908.0E-06
6037	-	1.2E-03	362.0E-06	1.1E-03	698.0E-06	-98.0E-06	496.0E-06	762.0E-06	968.0E-06	244.0E-06	1.1E-03	422.0E-06	1.1E-03
6039	-	1.1E-03	170.0E-06	984.0E-06	332.0E-06	-320.0E-06	-54.0E-06	472.0E-06	754.0E-06	-200.0E-06	834.0E-06	268.0E-06	964.0E-06
Average	-	1.1E-03	253.3E-06	1.0E-03	333.3E-06	-206.0E-06	266.0E-06	573.3E-06	810.0E-06	16.0E-06	916.7E-06	274.0E-06	1.0E-03
Sigma	-	105.1E-06	80.4E-06	97.1E-06	297.2E-06	90.7E-06	233.4E-06	133.5E-06	113.3E-06	181.5E-06	135.7E-06	118.5E-06	100.7E-06

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

Isc	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	71.7E-03	72.9E-03	71.5E-03	73.0E-03	72.2E-03	71.7E-03	72.2E-03	71.8E-03	71.6E-03	72.2E-03	72.6E-03	69.9E-03	71.7E-03
OFF PROTON samples													
6075	70.1E-03	71.1E-03	70.4E-03	71.2E-03	70.7E-03	69.9E-03	70.6E-03	70.9E-03	70.9E-03	70.3E-03	71.1E-03	70.6E-03	71.3E-03
6076	72.0E-03	73.1E-03	72.3E-03	73.2E-03	72.6E-03	71.8E-03	72.5E-03	72.9E-03	73.0E-03	72.2E-03	73.0E-03	72.6E-03	73.3E-03
6077	71.0E-03	71.9E-03	71.0E-03	72.1E-03	71.5E-03	70.4E-03	71.2E-03	71.6E-03	71.7E-03	71.1E-03	71.9E-03	71.4E-03	72.0E-03
Statistics													
Min	70.1E-03	71.1E-03	70.4E-03	71.2E-03	70.7E-03	69.9E-03	70.6E-03	70.9E-03	70.9E-03	70.3E-03	71.1E-03	70.6E-03	71.3E-03
Max	72.0E-03	73.1E-03	72.3E-03	73.2E-03	72.6E-03	71.8E-03	72.5E-03	72.9E-03	73.0E-03	72.2E-03	73.0E-03	72.6E-03	73.3E-03
Average	71.0E-03	72.0E-03	71.2E-03	72.2E-03	71.6E-03	70.7E-03	71.4E-03	71.8E-03	71.9E-03	71.2E-03	72.0E-03	71.5E-03	72.2E-03
Sigma	802.0E-06	817.8E-06	765.1E-06	792.8E-06	768.7E-06	788.3E-06	791.8E-06	805.7E-06	833.0E-06	795.9E-06	763.4E-06	852.2E-06	820.8E-06

Drift Calculation

Isc	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	1.0E-03	342.0E-06	1.1E-03	640.0E-06	-170.0E-06	506.0E-06	852.0E-06	866.0E-06	220.0E-06	1.0E-03	476.0E-06	1.2E-03
6076	-	1.0E-03	220.0E-06	1.1E-03	548.0E-06	-256.0E-06	448.0E-06	838.0E-06	924.0E-06	192.0E-06	918.0E-06	584.0E-06	1.2E-03
6077	-	878.0E-06	58.0E-06	1.1E-03	488.0E-06	-524.0E-06	242.0E-06	656.0E-06	730.0E-06	78.0E-06	922.0E-06	382.0E-06	996.0E-06
Average	-	972.7E-06	206.7E-06	1.1E-03	558.7E-06	-316.7E-06	398.7E-06	782.0E-06	840.0E-06	163.3E-06	952.0E-06	480.7E-06	1.1E-03
Sigma	-	67.7E-06	116.3E-06	14.3E-06	62.5E-06	150.7E-06	113.3E-06	89.3E-06	81.3E-06	61.4E-06	45.3E-06	82.5E-06	102.6E-06

Measurements

Isc	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	71.7E-03	72.9E-03	71.5E-03	73.0E-03	72.2E-03	71.7E-03	72.2E-03	71.8E-03	71.6E-03	72.2E-03	72.6E-03	69.9E-03	71.7E-03
OFF TID samples													
6020	69.3E-03	70.0E-03	67.7E-03	70.2E-03	69.5E-03	68.9E-03	69.4E-03	69.8E-03	69.9E-03	69.1E-03	70.1E-03	69.4E-03	70.3E-03
6022	67.2E-03	67.9E-03	67.1E-03	67.2E-03	67.2E-03	66.4E-03	66.9E-03	67.3E-03	67.5E-03	66.8E-03	67.6E-03	67.1E-03	67.8E-03
6023	55.9E-03	56.4E-03	55.9E-03	56.7E-03	56.3E-03	55.6E-03	56.0E-03	56.2E-03	56.3E-03	55.7E-03	56.5E-03	56.1E-03	56.7E-03
Statistics													
Min	55.9E-03	56.4E-03	55.9E-03	56.7E-03	56.3E-03	55.6E-03	56.0E-03	56.2E-03	56.3E-03	55.7E-03	56.5E-03	56.1E-03	56.7E-03
Max	69.3E-03	70.0E-03	67.7E-03	70.2E-03	69.5E-03	68.9E-03	69.4E-03	69.8E-03	69.9E-03	69.1E-03	70.1E-03	69.4E-03	70.3E-03
Average	64.1E-03	64.8E-03	63.6E-03	64.7E-03	64.3E-03	63.6E-03	64.1E-03	64.4E-03	64.6E-03	63.9E-03	64.7E-03	64.2E-03	64.9E-03
Sigma	5.9E-03	6.0E-03	5.4E-03	5.8E-03	5.8E-03	5.7E-03	5.8E-03	5.9E-03	5.9E-03	5.8E-03	5.9E-03	5.8E-03	5.9E-03

Drift Calculation

Isc	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	722.0E-06	-1.6E-03	978.0E-06	200.0E-06	-402.0E-06	114.0E-06	560.0E-06	684.0E-06	-180.0E-06	862.0E-06	174.0E-06	1.0E-03
6022	-	746.0E-06	-76.0E-06	40.0E-06	42.0E-06	-810.0E-06	-268.0E-06	116.0E-06	324.0E-06	-364.0E-06	390.0E-06	-108.0E-06	594.0E-06
6023	-	542.0E-06	86.0E-06	852.0E-06	408.0E-06	-236.0E-06	152.0E-06	318.0E-06	470.0E-06	-154.0E-06	668.0E-06	272.0E-06	820.0E-06
Average	-	670.0E-06	-525.3E-06	623.3E-06	216.7E-06	-482.7E-06	-668.1E-06	331.3E-06	492.7E-06	-232.7E-06	640.0E-06	112.7E-06	811.3E-06
Sigma	-	91.0E-06	752.9E-06	415.7E-06	149.9E-06	241.2E-06	189.7E-06	181.5E-06	147.8E-06	93.5E-06	193.7E-06	161.1E-06	174.0E-06

Parameter : Initial Accuracy : FO

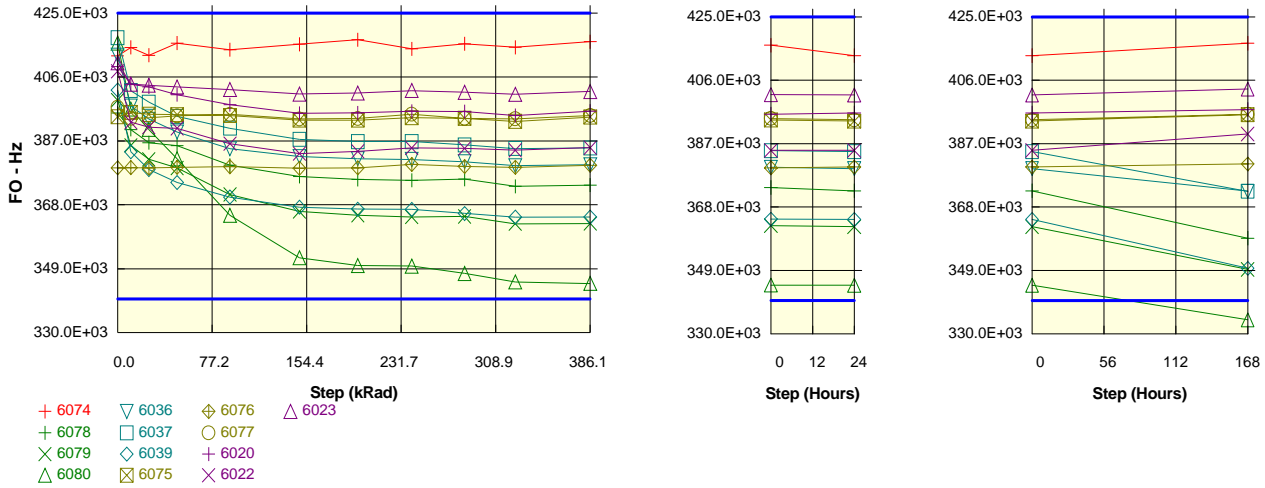
Test conditions :

Unit : Hz

Spec Limit Min : 340.0E+03

Spec Limit Max : 425.0E+03

Spec limits are represented in bold lines on the graphic.



Measurements

FO	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	412.3E+03	414.8E+03	412.5E+03	416.1E+03	414.1E+03	415.8E+03	417.1E+03	414.4E+03	415.9E+03	414.8E+03	416.5E+03	413.4E+03	417.1E+03
ON PROTON samples													
6078	395.3E+03	390.4E+03	386.5E+03	385.6E+03	379.8E+03	376.4E+03	375.6E+03	375.3E+03	375.6E+03	373.5E+03	373.9E+03	372.9E+03	358.7E+03
6079	399.2E+03	385.6E+03	381.6E+03	379.0E+03	371.1E+03	366.0E+03	364.9E+03	364.4E+03	364.6E+03	362.4E+03	362.5E+03	362.1E+03	349.3E+03
6080	416.1E+03	396.5E+03	390.4E+03	381.7E+03	364.9E+03	352.3E+03	350.0E+03	349.8E+03	347.6E+03	345.1E+03	344.6E+03	344.6E+03	334.2E+03
Statistics													
Min	395.3E+03	385.6E+03	381.6E+03	379.0E+03	364.9E+03	352.3E+03	350.0E+03	349.8E+03	347.6E+03	345.1E+03	344.6E+03	344.6E+03	334.2E+03
Max	416.1E+03	396.5E+03	390.4E+03	385.6E+03	379.8E+03	376.4E+03	375.6E+03	375.3E+03	375.6E+03	373.5E+03	373.9E+03	372.9E+03	358.7E+03
Average	403.5E+03	390.8E+03	386.2E+03	382.1E+03	371.9E+03	364.9E+03	363.5E+03	363.2E+03	362.6E+03	360.3E+03	360.3E+03	359.9E+03	347.4E+03
Sigma	9.1E+03	4.4E+03	3.6E+03	2.7E+03	6.1E+03	9.9E+03	10.5E+03	10.4E+03	11.5E+03	11.7E+03	12.0E+03	11.7E+03	10.1E+03

Drift Calculation

FO	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-4.9E+03	-8.8E+03	-9.7E+03	-15.5E+03	-18.8E+03	-19.7E+03	-20.0E+03	-19.6E+03	-21.7E+03	-21.4E+03	-22.4E+03	-36.6E+03
6079	-	-13.5E+03	-17.6E+03	-20.2E+03	-28.1E+03	-33.1E+03	-34.2E+03	-34.7E+03	-34.6E+03	-36.8E+03	-36.7E+03	-37.0E+03	-49.8E+03
6080	-	-19.7E+03	-25.7E+03	-34.5E+03	-51.2E+03	-63.9E+03	-66.2E+03	-66.3E+03	-68.5E+03	-71.1E+03	-71.5E+03	-71.6E+03	-81.9E+03
Average	-	-12.7E+03	-17.4E+03	-21.4E+03	-31.6E+03	-38.6E+03	-40.0E+03	-40.4E+03	-40.9E+03	-43.2E+03	-43.2E+03	-43.7E+03	-56.1E+03
Sigma	-	6.1E+03	6.9E+03	10.2E+03	14.8E+03	18.8E+03	19.4E+03	19.3E+03	20.5E+03	20.6E+03	21.0E+03	20.6E+03	19.0E+03

Measurements

FO	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	412.3E+03	414.8E+03	412.5E+03	416.1E+03	414.1E+03	415.8E+03	417.1E+03	414.4E+03	415.9E+03	414.8E+03	416.5E+03	413.4E+03	417.1E+03
ON TID samples													
6036	412.5E+03	397.4E+03	393.5E+03	389.6E+03	384.7E+03	382.4E+03	381.7E+03	381.5E+03	380.8E+03	379.6E+03	379.9E+03	379.5E+03	372.8E+03
6037	417.7E+03	402.0E+03	398.5E+03	394.3E+03	390.8E+03	387.5E+03	386.8E+03	386.8E+03	385.9E+03	384.8E+03	384.9E+03	384.6E+03	372.7E+03
6039	402.1E+03	383.8E+03	378.5E+03	374.7E+03	370.3E+03	367.3E+03	366.7E+03	366.6E+03	365.5E+03	364.4E+03	364.4E+03	364.3E+03	349.7E+03
Statistics													
Min	402.1E+03	383.8E+03	378.5E+03	374.7E+03	370.3E+03	367.3E+03	366.7E+03	366.6E+03	365.5E+03	364.4E+03	364.4E+03	364.3E+03	349.7E+03
Max	417.7E+03	402.0E+03	398.5E+03	394.3E+03	390.8E+03	387.5E+03	386.8E+03	386.8E+03	385.9E+03	384.8E+03	384.9E+03	384.6E+03	372.8E+03
Average	410.8E+03	394.4E+03	390.2E+03	386.2E+03	381.9E+03	379.0E+03	378.4E+03	378.3E+03	377.4E+03	376.3E+03	376.4E+03	376.2E+03	365.0E+03
Sigma	6.5E+03	7.7E+03	8.5E+03	8.4E+03	8.6E+03	8.6E+03	8.5E+03	8.5E+03	8.7E+03	8.7E+03	8.8E+03	8.6E+03	10.9E+03

Drift Calculation

FO	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-15.1E+03	-19.1E+03	-22.9E+03	-27.8E+03	-30.2E+03	-30.8E+03	-31.0E+03	-31.7E+03	-32.9E+03	-32.6E+03	-33.0E+03	-39.8E+03
6037	-	-15.7E+03	-19.2E+03	-23.4E+03	-26.9E+03	-30.2E+03	-30.9E+03	-30.9E+03	-31.8E+03	-32.9E+03	-32.7E+03	-33.0E+03	-45.0E+03
6039	-	-18.3E+03	-23.6E+03	-27.5E+03	-31.8E+03	-34.8E+03	-35.4E+03	-35.5E+03	-36.7E+03	-37.8E+03	-37.8E+03	-37.8E+03	-52.5E+03
Average	-	-16.4E+03	-20.6E+03	-24.6E+03	-28.8E+03	-31.7E+03	-32.4E+03	-32.5E+03	-33.4E+03	-34.5E+03	-34.4E+03	-34.6E+03	-45.7E+03
Sigma	-	1.4E+03	2.1E+03	2.0E+03	2.1E+03	2.2E+03	2.1E+03	2.1E+03	2.3E+03	2.3E+03	2.4E+03	2.3E+03	5.2E+03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

FO	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	412.3E+03	414.8E+03	412.5E+03	416.1E+03	414.1E+03	415.8E+03	417.1E+03	414.4E+03	415.9E+03	414.8E+03	416.5E+03	413.4E+03	417.1E+03
OFF PROTON samples													
6075	394.2E+03	395.5E+03	394.9E+03	394.8E+03	394.6E+03	393.2E+03	393.2E+03	393.9E+03	393.7E+03	392.8E+03	394.1E+03	393.8E+03	395.7E+03
6076	379.0E+03	379.1E+03	379.0E+03	379.2E+03	379.4E+03	378.9E+03	379.0E+03	380.0E+03	379.4E+03	379.2E+03	379.8E+03	380.0E+03	380.9E+03
6077	397.0E+03	393.7E+03	393.9E+03	394.5E+03	394.9E+03	393.6E+03	393.7E+03	395.0E+03	393.8E+03	393.6E+03	394.6E+03	394.2E+03	395.8E+03
Statistics													
Min	379.0E+03	379.1E+03	379.0E+03	379.2E+03	379.4E+03	378.9E+03	379.0E+03	380.0E+03	379.4E+03	379.2E+03	379.8E+03	380.0E+03	380.9E+03
Max	397.0E+03	395.5E+03	394.9E+03	394.8E+03	394.9E+03	393.6E+03	393.7E+03	395.0E+03	393.8E+03	393.6E+03	394.6E+03	394.2E+03	395.8E+03
Average	390.1E+03	389.4E+03	389.3E+03	389.5E+03	389.6E+03	388.6E+03	388.6E+03	389.6E+03	389.0E+03	388.5E+03	389.5E+03	389.3E+03	390.8E+03
Sigma	7.9E+03	7.3E+03	7.3E+03	7.3E+03	7.3E+03	6.8E+03	6.8E+03	6.8E+03	6.8E+03	6.6E+03	6.9E+03	6.6E+03	7.0E+03

Drift Calculation

FO	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	1.3E+03	749.1E+00	662.1E+00	404.3E+00	-951.7E+00	-982.5E+00	-270.6E+00	-447.8E+00	-1.3E+03	-75.2E+00	-398.9E+00	1.5E+03
6076	-	92.8E+00	-23.8E+00	163.6E+00	360.0E+00	-96.2E+00	4.4E+00	1.0E+03	414.2E+00	154.8E+00	777.2E+00	1.0E+03	1.9E+03
6077	-	-3.3E+03	-3.1E+03	-2.5E+03	-2.1E+03	-3.4E+03	-3.3E+03	-2.0E+03	-3.2E+03	-3.4E+03	-2.4E+03	-2.8E+03	-1.2E+03
Average	-	-631.1E+00	-789.2E+00	-567.3E+00	-437.8E+00	-1.5E+03	-1.4E+03	-430.1E+00	-1.1E+03	-1.5E+03	-569.0E+00	-740.3E+00	761.8E+00
Sigma	-	1.9E+03	1.7E+03	1.4E+03	1.2E+03	1.4E+03	1.4E+03	1.3E+03	1.6E+03	1.5E+03	1.3E+03	1.6E+03	1.4E+03

Measurements

FO	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	412.3E+03	414.8E+03	412.5E+03	416.1E+03	414.1E+03	415.8E+03	417.1E+03	414.4E+03	415.9E+03	414.8E+03	416.5E+03	413.4E+03	417.1E+03
OFF TID samples													
6020	409.1E+03	403.8E+03	403.1E+03	400.8E+03	397.8E+03	395.2E+03	395.4E+03	395.8E+03	395.7E+03	394.6E+03	395.8E+03	396.2E+03	397.2E+03
6022	407.7E+03	392.6E+03	391.1E+03	390.8E+03	386.2E+03	383.2E+03	383.9E+03	385.0E+03	384.8E+03	384.3E+03	385.0E+03	385.0E+03	389.9E+03
6023	410.3E+03	403.9E+03	403.6E+03	403.1E+03	402.3E+03	401.0E+03	401.3E+03	402.0E+03	401.5E+03	400.9E+03	401.7E+03	401.6E+03	403.4E+03
Statistics													
Min	407.7E+03	392.6E+03	391.1E+03	390.8E+03	386.2E+03	383.2E+03	383.9E+03	385.0E+03	384.8E+03	384.3E+03	385.0E+03	385.0E+03	389.9E+03
Max	410.3E+03	403.9E+03	403.6E+03	403.1E+03	402.3E+03	401.0E+03	401.3E+03	402.0E+03	401.5E+03	400.9E+03	401.7E+03	401.6E+03	403.4E+03
Average	409.0E+03	400.1E+03	399.2E+03	398.2E+03	395.4E+03	393.1E+03	393.5E+03	394.2E+03	394.0E+03	393.2E+03	394.2E+03	394.3E+03	396.8E+03
Sigma	1.0E+03	5.3E+03	5.8E+03	5.3E+03	6.8E+03	7.4E+03	7.2E+03	7.0E+03	6.9E+03	6.8E+03	6.9E+03	6.9E+03	5.5E+03

Drift Calculation

FO	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-5.3E+03	-6.1E+03	-8.4E+03	-11.4E+03	-13.9E+03	-13.8E+03	-13.3E+03	-13.4E+03	-14.6E+03	-13.3E+03	-13.0E+03	-11.9E+03
6022	-	-15.2E+03	-16.6E+03	-16.9E+03	-21.5E+03	-24.5E+03	-23.8E+03	-22.8E+03	-22.9E+03	-23.4E+03	-22.7E+03	-22.7E+03	-17.8E+03
6023	-	-6.4E+03	-6.7E+03	-7.2E+03	-8.0E+03	-9.3E+03	-9.0E+03	-8.3E+03	-8.8E+03	-9.4E+03	-8.6E+03	-8.6E+03	-6.9E+03
Average	-	-8.9E+03	-9.8E+03	-10.8E+03	-13.6E+03	-15.9E+03	-15.5E+03	-14.8E+03	-15.0E+03	-15.8E+03	-14.9E+03	-14.8E+03	-12.2E+03
Sigma	-	4.4E+03	4.8E+03	4.3E+03	5.8E+03	6.3E+03	6.2E+03	6.0E+03	5.9E+03	5.8E+03	5.9E+03	5.9E+03	4.5E+03

Parameter : Voltage Stability : FPSRR

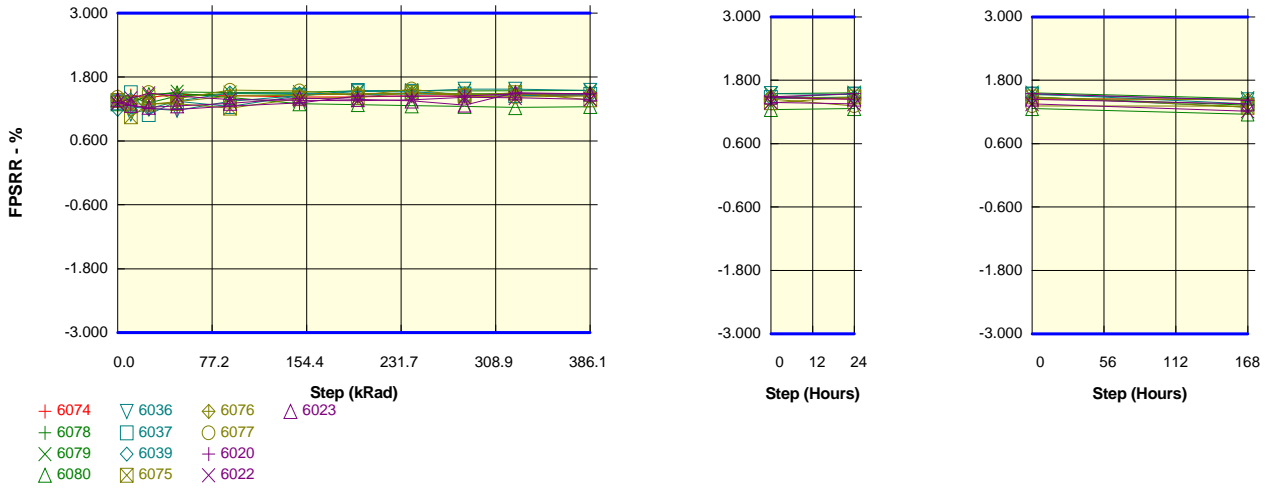
Test conditions : 12V<VS<20V

Unit : %

Spec Limit Min : -3.000

Spec Limit Max : 3.000

Spec limits are represented in bold lines on the graphic.



Measurements

FPSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.444	1.451	1.416	1.475	1.454	1.423	1.426	1.451	1.441	1.447	1.464	1.443	1.450
ON PROTON samples													
6078	1.329	1.430	1.315	1.443	1.491	1.471	1.477	1.487	1.487	1.490	1.475	1.476	1.328
6079	1.303	1.313	1.456	1.523	1.509	1.517	1.538	1.552	1.540	1.545	1.549	1.562	1.455
6080	1.297	1.299	1.472	1.499	1.418	1.300	1.284	1.262	1.250	1.228	1.245	1.266	1.159
Statistics													
Min	1.297	1.299	1.315	1.443	1.418	1.300	1.284	1.262	1.250	1.228	1.245	1.266	1.159
Max	1.329	1.430	1.472	1.523	1.509	1.517	1.538	1.552	1.540	1.545	1.549	1.562	1.455
Average	1.310	1.347	1.414	1.488	1.473	1.429	1.433	1.433	1.425	1.421	1.423	1.435	1.314
Sigma	0.014	0.059	0.070	0.034	0.039	0.093	0.108	0.124	0.126	0.138	0.129	0.124	0.121

Drift Calculation

FPSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	101.0E-03	-13.8E-03	113.7E-03	161.7E-03	141.7E-03	147.9E-03	157.6E-03	157.6E-03	160.6E-03	146.0E-03	146.7E-03	-565.5E-06
6079	-	9.9E-03	152.7E-03	219.8E-03	205.9E-03	214.3E-03	234.8E-03	248.4E-03	236.4E-03	241.6E-03	245.9E-03	259.2E-03	151.7E-03
6080	-	2.5E-03	175.2E-03	201.9E-03	121.0E-03	3.2E-03	-12.9E-03	-34.8E-03	-46.8E-03	-69.3E-03	-51.5E-03	-30.5E-03	-137.8E-03
Average	-	37.8E-03	104.7E-03	178.5E-03	162.9E-03	119.7E-03	123.3E-03	123.8E-03	115.7E-03	111.0E-03	113.5E-03	125.1E-03	4.4E-03
Sigma	-	44.8E-03	84.3E-03	46.4E-03	34.6E-03	87.5E-03	102.6E-03	118.1E-03	119.3E-03	131.7E-03	123.6E-03	119.2E-03	118.2E-03

Measurements

FPSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.444	1.451	1.416	1.475	1.454	1.423	1.426	1.451	1.441	1.447	1.464	1.443	1.450
ON TID samples													
6036	1.336	1.107	1.205	1.173	1.345	1.456	1.548	1.533	1.572	1.571	1.550	1.529	1.431
6037	1.320	1.503	1.100	1.342	1.247	1.447	1.529	1.520	1.482	1.449	1.475	1.544	1.353
6039	1.192	1.240	1.204	1.348	1.501	1.490	1.479	1.489	1.470	1.484	1.457	1.482	1.291
Statistics													
Min	1.192	1.107	1.100	1.173	1.247	1.447	1.479	1.489	1.470	1.449	1.457	1.482	1.291
Max	1.336	1.503	1.205	1.348	1.501	1.490	1.548	1.533	1.572	1.571	1.550	1.544	1.431
Average	1.283	1.283	1.170	1.288	1.364	1.465	1.519	1.514	1.508	1.501	1.494	1.518	1.358
Sigma	0.065	0.165	0.049	0.081	0.104	0.019	0.029	0.018	0.045	0.051	0.040	0.026	0.057

Drift Calculation

FPSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-228.8E-03	-131.1E-03	-162.8E-03	8.9E-03	120.0E-03	212.3E-03	196.8E-03	235.8E-03	235.3E-03	214.2E-03	192.9E-03	95.0E-03
6037	-	183.2E-03	-220.2E-03	21.7E-03	-73.0E-03	127.1E-03	208.4E-03	199.6E-03	162.0E-03	128.9E-03	154.8E-03	223.4E-03	32.6E-03
6039	-	48.0E-03	12.2E-03	156.1E-03	309.3E-03	298.8E-03	287.2E-03	297.8E-03	278.2E-03	292.3E-03	265.1E-03	290.1E-03	99.1E-03
Average	-	819.8E-06	-113.0E-03	5.0E-03	81.8E-03	182.0E-03	236.0E-03	231.4E-03	225.3E-03	218.8E-03	211.4E-03	235.5E-03	75.6E-03
Sigma	-	171.5E-03	95.7E-03	130.7E-03	164.3E-03	82.7E-03	36.2E-03	47.0E-03	48.0E-03	67.7E-03	45.1E-03	40.6E-03	30.4E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

FPSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.444	1.451	1.416	1.475	1.454	1.423	1.426	1.451	1.441	1.447	1.464	1.443	1.450
OFF PROTON samples													
6075	1.362	1.054	1.294	1.302	1.218	1.395	1.423	1.505	1.448	1.505	1.374	1.485	1.291
6076	1.351	1.302	1.285	1.340	1.443	1.459	1.494	1.491	1.486	1.469	1.493	1.452	1.429
6077	1.417	1.327	1.507	1.393	1.552	1.540	1.453	1.574	1.445	1.427	1.444	1.317	1.312
Statistics													
Min	1.351	1.054	1.285	1.302	1.218	1.395	1.423	1.491	1.445	1.427	1.374	1.317	1.291
Max	1.417	1.327	1.507	1.393	1.552	1.540	1.494	1.574	1.486	1.505	1.493	1.485	1.429
Average	1.377	1.228	1.362	1.345	1.404	1.465	1.457	1.523	1.460	1.467	1.437	1.418	1.344
Sigma	0.029	0.123	0.103	0.037	0.139	0.059	0.029	0.036	0.019	0.032	0.049	0.073	0.061

Drift Calculation

FPSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-308.6E-03	-68.1E-03	-60.2E-03	-144.7E-03	33.1E-03	60.5E-03	142.3E-03	86.2E-03	142.6E-03	11.5E-03	122.8E-03	-71.7E-03
6076	-	-49.5E-03	-66.3E-03	-11.2E-03	91.2E-03	107.5E-03	142.7E-03	139.5E-03	135.1E-03	117.8E-03	141.6E-03	100.3E-03	77.3E-03
6077	-	-89.9E-03	89.8E-03	-24.7E-03	135.1E-03	122.2E-03	35.9E-03	156.2E-03	27.7E-03	9.7E-03	26.8E-03	-100.3E-03	-105.4E-03
Average	-	-149.4E-03	-14.9E-03	-32.0E-03	27.2E-03	87.6E-03	79.7E-03	146.0E-03	83.0E-03	90.0E-03	60.0E-03	40.9E-03	-33.3E-03
Sigma	-	113.8E-03	74.0E-03	20.7E-03	122.8E-03	39.0E-03	45.7E-03	7.3E-03	43.9E-03	57.7E-03	58.1E-03	100.3E-03	79.4E-03

Measurements

FPSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.444	1.451	1.416	1.475	1.454	1.423	1.426	1.451	1.441	1.447	1.464	1.443	1.450
OFF TID samples													
6020	1.321	1.267	1.209	1.193	1.252	1.313	1.443	1.440	1.444	1.489	1.487	1.551	1.421
6022	1.307	1.400	1.496	1.444	1.377	1.362	1.359	1.374	1.420	1.409	1.384	1.353	1.216
6023	1.377	1.268	1.234	1.260	1.306	1.406	1.381	1.352	1.273	1.505	1.484	1.441	1.352
Statistics													
Min	1.307	1.267	1.209	1.193	1.252	1.313	1.359	1.352	1.273	1.409	1.384	1.353	1.216
Max	1.377	1.400	1.496	1.444	1.377	1.406	1.443	1.440	1.444	1.505	1.487	1.551	1.421
Average	1.335	1.312	1.313	1.299	1.312	1.361	1.394	1.389	1.379	1.468	1.452	1.448	1.330
Sigma	0.030	0.063	0.130	0.106	0.051	0.038	0.036	0.037	0.075	0.042	0.048	0.081	0.085

Drift Calculation

FPSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-54.3E-03	-112.0E-03	-128.5E-03	-68.7E-03	-7.8E-03	122.1E-03	118.8E-03	122.8E-03	167.7E-03	166.0E-03	229.8E-03	100.3E-03
6022	-	93.0E-03	188.9E-03	136.6E-03	69.4E-03	54.7E-03	52.2E-03	66.8E-03	112.9E-03	102.1E-03	77.1E-03	45.7E-03	-91.1E-03
6023	-	-108.9E-03	-143.3E-03	-117.4E-03	-70.6E-03	29.4E-03	3.7E-03	-24.8E-03	-103.6E-03	128.0E-03	107.3E-03	63.7E-03	-24.8E-03
Average	-	-23.4E-03	-22.1E-03	-36.4E-03	-23.3E-03	25.4E-03	59.3E-03	53.6E-03	44.0E-03	132.6E-03	116.8E-03	113.1E-03	-5.2E-03
Sigma	-	85.3E-03	149.8E-03	122.4E-03	65.6E-03	25.7E-03	48.6E-03	59.4E-03	104.4E-03	27.0E-03	36.9E-03	82.9E-03	79.4E-03

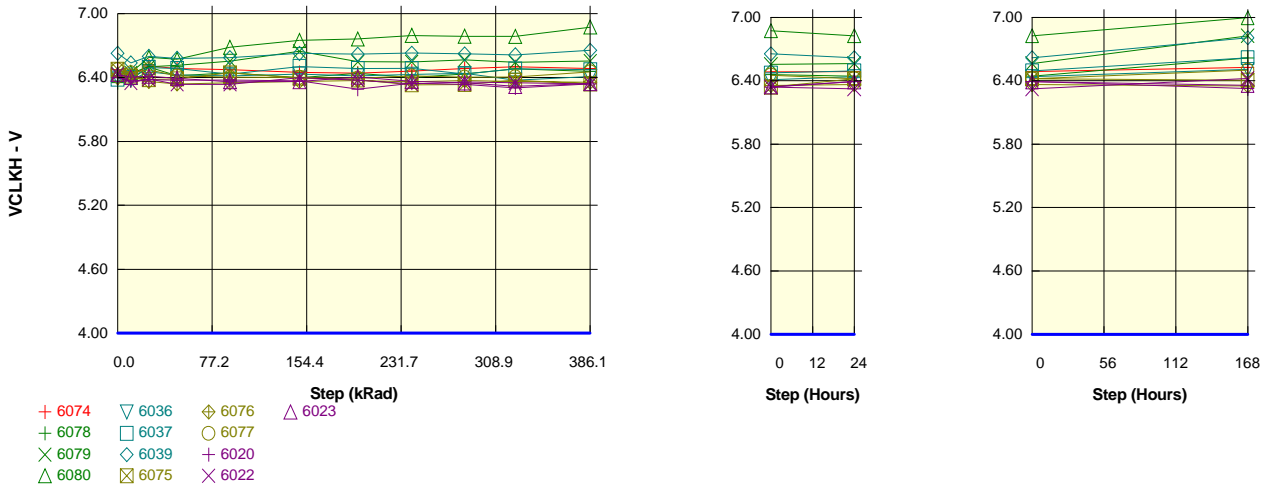
Parameter : Clock Out High Voltage : VCLKH

Test conditions :

Unit : V

Spec Limit Min : 4.00

Spec limits are represented in bold lines on the graphic.



Measurements

VCLKH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	6.48	6.42	6.51	6.48	6.48	6.45	6.44	6.46	6.48	6.50	6.48	6.49	6.53
ON PROTON samples													
6078	6.35	6.38	6.50	6.42	6.44	6.40	6.44	6.40	6.43	6.48	6.46	6.44	6.62
6079	6.44	6.44	6.50	6.52	6.55	6.65	6.55	6.55	6.57	6.54	6.56	6.56	6.83
6080	6.43	6.45	6.59	6.57	6.68	6.75	6.76	6.80	6.79	6.79	6.87	6.83	7.00
Statistics													
Min	6.35	6.38	6.50	6.42	6.44	6.40	6.44	6.40	6.43	6.48	6.46	6.44	6.62
Max	6.44	6.45	6.59	6.57	6.68	6.75	6.76	6.80	6.79	6.79	6.87	6.83	7.00
Average	6.41	6.42	6.53	6.50	6.56	6.60	6.58	6.58	6.60	6.60	6.63	6.61	6.81
Sigma	0.04	0.03	0.04	0.06	0.10	0.15	0.13	0.16	0.15	0.13	0.18	0.16	0.16

Drift Calculation

VCLKH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	31.6E-03	146.1E-03	65.1E-03	91.3E-03	44.7E-03	85.4E-03	48.6E-03	80.8E-03	128.6E-03	105.9E-03	91.6E-03	263.2E-03
6079	-	3.3E-03	63.0E-03	78.1E-03	116.0E-03	207.5E-03	109.6E-03	108.1E-03	127.9E-03	105.2E-03	117.3E-03	125.6E-03	387.3E-03
6080	-	13.4E-03	155.5E-03	138.4E-03	250.7E-03	314.9E-03	329.4E-03	362.1E-03	354.2E-03	353.1E-03	441.0E-03	392.8E-03	563.1E-03
Average	-	16.1E-03	121.5E-03	93.9E-03	152.7E-03	189.0E-03	174.8E-03	172.9E-03	187.6E-03	195.6E-03	221.4E-03	203.3E-03	404.5E-03
Sigma	-	11.7E-03	41.6E-03	31.9E-03	70.0E-03	111.1E-03	109.8E-03	135.9E-03	119.3E-03	111.8E-03	155.4E-03	134.7E-03	123.0E-03

Measurements

VCLKH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	6.48	6.42	6.51	6.48	6.48	6.45	6.44	6.46	6.48	6.50	6.48	6.49	6.53
ON TID samples													
6036	6.39	6.38	6.45	6.42	6.42	6.43	6.42	6.43	6.44	6.38	6.41	6.44	6.51
6037	6.39	6.40	6.49	6.49	6.43	6.50	6.49	6.49	6.43	6.48	6.47	6.49	6.62
6039	6.63	6.54	6.60	6.58	6.59	6.63	6.62	6.63	6.62	6.61	6.66	6.62	6.81
Statistics													
Min	6.39	6.38	6.45	6.42	6.42	6.43	6.42	6.43	6.43	6.38	6.41	6.44	6.51
Max	6.63	6.54	6.60	6.58	6.59	6.63	6.62	6.63	6.62	6.61	6.66	6.62	6.81
Average	6.47	6.44	6.52	6.50	6.48	6.52	6.51	6.52	6.50	6.49	6.51	6.52	6.64
Sigma	0.11	0.07	0.06	0.06	0.08	0.08	0.08	0.08	0.09	0.10	0.10	0.07	0.12

Drift Calculation

VCLKH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-16.7E-03	58.5E-03	29.7E-03	21.6E-03	38.1E-03	22.1E-03	36.3E-03	43.7E-03	-18.5E-03	16.0E-03	45.2E-03	113.5E-03
6037	-	12.6E-03	108.6E-03	99.1E-03	45.8E-03	118.0E-03	99.0E-03	99.8E-03	47.8E-03	96.0E-03	88.8E-03	108.3E-03	232.4E-03
6039	-	-90.1E-03	-27.5E-03	-46.8E-03	-39.6E-03	-899.8E-06	-7.7E-03	1.6E-03	-5.9E-03	-13.9E-03	28.2E-03	-9.2E-03	179.7E-03
Average	-	-31.4E-03	46.5E-03	27.3E-03	9.3E-03	51.7E-03	37.8E-03	45.9E-03	28.5E-03	21.2E-03	44.3E-03	48.1E-03	175.2E-03
Sigma	-	43.2E-03	56.2E-03	59.6E-03	35.9E-03	49.5E-03	45.0E-03	40.7E-03	24.4E-03	52.9E-03	31.8E-03	48.0E-03	48.6E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VCLKH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	6.48	6.42	6.51	6.48	6.48	6.45	6.44	6.46	6.48	6.50	6.48	6.49	6.53
OFF PROTON samples													
6075	6.48	6.41	6.38	6.39	6.44	6.40	6.38	6.33	6.33	6.37	6.34	6.42	6.41
6076	6.40	6.41	6.36	6.34	6.35	6.36	6.37	6.36	6.37	6.36	6.36	6.37	6.35
6077	6.47	6.44	6.47	6.42	6.40	6.40	6.39	6.41	6.40	6.41	6.45	6.42	6.50
Statistics													
Min	6.40	6.41	6.36	6.34	6.35	6.36	6.37	6.33	6.33	6.36	6.34	6.37	6.35
Max	6.48	6.44	6.47	6.42	6.44	6.40	6.39	6.41	6.40	6.41	6.45	6.42	6.50
Average	6.45	6.42	6.41	6.38	6.40	6.39	6.38	6.37	6.37	6.38	6.38	6.40	6.42
Sigma	0.04	0.02	0.05	0.03	0.04	0.02	0.01	0.03	0.03	0.02	0.05	0.03	0.06

Drift Calculation

VCLKH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-65.3E-03	-99.1E-03	-90.3E-03	-35.7E-03	-83.6E-03	-99.8E-03	-146.2E-03	-144.4E-03	-105.0E-03	-138.8E-03	-59.7E-03	-72.8E-03
6076	-	11.1E-03	-33.7E-03	-58.6E-03	-46.8E-03	-34.1E-03	-24.7E-03	-38.3E-03	-25.2E-03	-35.0E-03	-41.8E-03	-32.6E-03	-45.5E-03
6077	-	-29.1E-03	-800.1E-06	-58.3E-03	-70.6E-03	-72.0E-03	-79.0E-03	-59.0E-03	-69.8E-03	-67.2E-03	-19.8E-03	-52.5E-03	28.0E-03
Average	-	-27.8E-03	-44.5E-03	-69.1E-03	-51.0E-03	-63.2E-03	-67.8E-03	-81.2E-03	-79.8E-03	-69.1E-03	-66.8E-03	-48.3E-03	-30.1E-03
Sigma	-	31.2E-03	40.9E-03	15.0E-03	14.6E-03	21.1E-03	31.7E-03	46.8E-03	49.2E-03	28.6E-03	51.7E-03	11.5E-03	42.6E-03

Measurements

VCLKH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	6.48	6.42	6.51	6.48	6.48	6.45	6.44	6.46	6.48	6.50	6.48	6.49	6.53
OFF TID samples													
6020	6.40	6.37	6.38	6.37	6.38	6.37	6.29	6.35	6.34	6.30	6.34	6.39	6.33
6022	6.43	6.35	6.39	6.34	6.34	6.40	6.38	6.34	6.36	6.35	6.34	6.32	6.42
6023	6.43	6.40	6.41	6.39	6.36	6.36	6.41	6.36	6.35	6.32	6.34	6.39	6.36
Statistics													
Min	6.40	6.35	6.38	6.34	6.34	6.36	6.29	6.34	6.34	6.30	6.34	6.32	6.33
Max	6.43	6.40	6.41	6.39	6.38	6.40	6.41	6.36	6.36	6.35	6.34	6.39	6.42
Average	6.42	6.37	6.39	6.37	6.36	6.38	6.36	6.35	6.35	6.32	6.34	6.37	6.37
Sigma	0.02	0.02	0.01	0.02	0.02	0.02	0.05	0.01	0.01	0.02	0.00	0.03	0.04

Drift Calculation

VCLKH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-30.4E-03	-20.1E-03	-24.3E-03	-22.2E-03	-28.1E-03	-107.9E-03	-51.5E-03	-61.0E-03	-96.0E-03	-56.9E-03	-3.8E-03	-72.6E-03
6022	-	-80.6E-03	-45.0E-03	-93.6E-03	-94.2E-03	-31.4E-03	-55.3E-03	-90.9E-03	-72.6E-03	-80.6E-03	-89.2E-03	-107.6E-03	-9.3E-03
6023	-	-27.8E-03	-17.5E-03	-36.9E-03	-69.2E-03	-67.5E-03	-24.7E-03	-65.9E-03	-79.8E-03	-113.5E-03	-87.5E-03	-39.6E-03	-72.8E-03
Average	-	-46.3E-03	-27.5E-03	-51.6E-03	-61.9E-03	-42.3E-03	-62.6E-03	-69.4E-03	-71.1E-03	-96.7E-03	-77.9E-03	-50.3E-03	-51.6E-03
Sigma	-	24.3E-03	12.4E-03	30.1E-03	29.8E-03	17.8E-03	34.4E-03	16.3E-03	7.7E-03	13.4E-03	14.8E-03	43.1E-03	29.9E-03

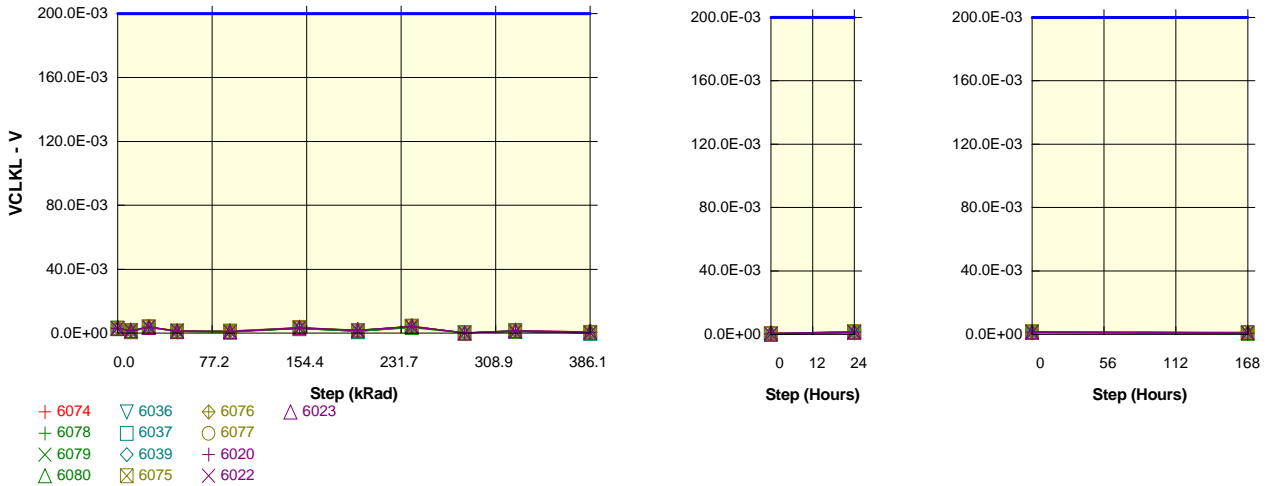
Parameter : Clock Out Low Voltage : VCLKL

Test conditions :

Unit : V

Spec Limit Max : 200.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

VCLKL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	3.2E-03	1.3E-03	3.9E-03	1.6E-03	1.0E-03	3.3E-03	1.5E-03	4.5E-03	111.0E-06	1.8E-03	818.0E-06	1.7E-03	876.0E-06
ON PROTON samples													
6078	2.6E-03	798.0E-06	3.5E-03	1.0E-03	689.0E-06	2.9E-03	1.0E-03	3.9E-03	213.0E-06	1.2E-03	255.0E-06	782.0E-06	590.0E-06
6079	3.0E-03	1.1E-03	3.8E-03	985.0E-06	1.1E-03	2.8E-03	1.1E-03	3.4E-03	86.0E-06	1.1E-03	80.0E-06	1.1E-03	605.0E-06
6080	2.8E-03	1.0E-03	3.6E-03	1.0E-03	626.0E-06	2.9E-03	953.0E-06	3.7E-03	172.0E-06	1.0E-03	47.0E-06	1.6E-03	727.0E-06
Statistics													
Min	2.6E-03	798.0E-06	3.5E-03	985.0E-06	626.0E-06	2.8E-03	953.0E-06	3.4E-03	86.0E-06	1.0E-03	47.0E-06	782.0E-06	590.0E-06
Max	3.0E-03	1.1E-03	3.8E-03	1.0E-03	1.1E-03	2.9E-03	1.1E-03	3.9E-03	213.0E-06	1.2E-03	255.0E-06	1.6E-03	727.0E-06
Average	2.8E-03	974.0E-06	3.6E-03	998.3E-06	797.3E-06	2.9E-03	1.0E-03	3.7E-03	157.0E-06	1.1E-03	127.3E-06	1.2E-03	640.7E-06
Sigma	133.2E-06	132.9E-06	118.0E-06	9.5E-06	199.4E-06	40.4E-06	58.1E-06	196.8E-06	52.9E-06	77.7E-06	91.3E-06	323.1E-06	61.4E-06

Drift Calculation

VCLKL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-1.8E-03	840.0E-06	-1.6E-03	-1.9E-03	267.0E-06	-1.6E-03	1.3E-03	-2.4E-03	-1.4E-03	-2.4E-03	-1.9E-03	-2.0E-03
6079	-	-1.8E-03	806.0E-06	-2.0E-03	-1.9E-03	-150.0E-06	-1.9E-03	484.0E-06	-2.9E-03	-1.8E-03	-2.9E-03	-1.8E-03	-2.4E-03
6080	-	-1.8E-03	781.0E-06	-1.8E-03	-2.2E-03	45.0E-06	-1.9E-03	844.0E-06	-2.7E-03	-1.8E-03	-2.8E-03	-1.3E-03	-2.1E-03
Average	-	-1.8E-03	809.0E-06	-1.8E-03	-2.0E-03	54.0E-06	-1.8E-03	872.3E-06	-2.7E-03	-1.7E-03	-2.7E-03	-1.7E-03	-2.2E-03
Sigma	-	2.9E-06	24.2E-06	140.3E-06	142.7E-06	170.4E-06	134.3E-06	329.3E-06	183.9E-06	186.2E-06	217.0E-06	272.6E-06	132.6E-06

Measurements

VCLKL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	3.2E-03	1.3E-03	3.9E-03	1.6E-03	1.0E-03	3.3E-03	1.5E-03	4.5E-03	111.0E-06	1.8E-03	818.0E-06	1.7E-03	876.0E-06
ON TID samples													
6036	3.1E-03	1.3E-03	3.8E-03	1.0E-03	1.3E-03	3.2E-03	1.4E-03	4.3E-03	174.0E-06	1.7E-03	227.0E-06	1.5E-03	633.0E-06
6037	3.0E-03	1.5E-03	3.9E-03	1.1E-03	994.0E-06	3.0E-03	1.4E-03	4.1E-03	290.0E-06	1.0E-03	100.0E-06	1.3E-03	1.3E-03
6039	2.9E-03	1.4E-03	3.5E-03	1.1E-03	1.3E-03	3.4E-03	2.0E-03	4.1E-03	355.0E-06	1.3E-03	366.0E-06	1.5E-03	707.0E-06
Statistics													
Min	2.9E-03	1.3E-03	3.5E-03	1.0E-03	994.0E-06	3.0E-03	1.4E-03	4.1E-03	174.0E-06	1.0E-03	100.0E-06	1.3E-03	633.0E-06
Max	3.1E-03	1.5E-03	3.9E-03	1.1E-03	1.3E-03	3.4E-03	2.0E-03	4.3E-03	355.0E-06	1.7E-03	366.0E-06	1.5E-03	1.3E-03
Average	3.0E-03	1.4E-03	3.7E-03	1.1E-03	1.2E-03	3.2E-03	1.6E-03	4.2E-03	273.0E-06	1.3E-03	231.0E-06	1.4E-03	865.7E-06
Sigma	47.9E-06	83.1E-06	167.3E-06	44.6E-06	126.6E-06	146.7E-06	258.2E-06	97.8E-06	74.9E-06	284.4E-06	108.6E-06	92.4E-06	278.4E-06

Drift Calculation

VCLKL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-1.8E-03	727.0E-06	-2.0E-03	-1.8E-03	114.0E-06	-1.6E-03	1.3E-03	-2.9E-03	-1.3E-03	-2.8E-03	-1.6E-03	-2.4E-03
6037	-	-1.5E-03	905.0E-06	-1.9E-03	-2.0E-03	41.0E-06	-1.5E-03	1.1E-03	-2.7E-03	-1.9E-03	-2.9E-03	-1.7E-03	-1.7E-03
6039	-	-1.6E-03	532.0E-06	-1.8E-03	-1.7E-03	417.0E-06	-962.0E-06	1.2E-03	-2.6E-03	-1.6E-03	-2.6E-03	-1.5E-03	-2.2E-03
Average	-	-1.6E-03	721.3E-06	-1.9E-03	-1.8E-03	190.7E-06	-1.4E-03	1.2E-03	-2.7E-03	-1.6E-03	-2.8E-03	-1.6E-03	-2.1E-03
Sigma	-	121.6E-06	152.3E-06	90.2E-06	118.7E-06	162.8E-06	291.2E-06	53.0E-06	122.1E-06	245.0E-06	126.0E-06	78.5E-06	303.7E-06

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

VCLKL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	3.2E-03	1.3E-03	3.9E-03	1.6E-03	1.0E-03	3.3E-03	1.5E-03	4.5E-03	111.0E-06	1.8E-03	818.0E-06	1.7E-03	876.0E-06
OFF PROTON samples													
6075	3.2E-03	1.4E-03	3.9E-03	1.4E-03	927.0E-06	3.4E-03	1.8E-03	4.3E-03	38.0E-06	1.4E-03	491.0E-06	1.8E-03	972.0E-06
6076	3.6E-03	2.0E-03	4.1E-03	1.3E-03	1.5E-03	3.6E-03	2.0E-03	4.4E-03	92.0E-06	1.4E-03	707.0E-06	1.8E-03	1.4E-03
6077	2.9E-03	1.3E-03	3.9E-03	1.0E-03	876.0E-06	3.3E-03	1.8E-03	4.4E-03	206.0E-06	1.2E-03	720.0E-06	1.6E-03	1.2E-03
Statistics													
Min	2.9E-03	1.3E-03	3.9E-03	1.0E-03	876.0E-06	3.3E-03	1.8E-03	4.3E-03	38.0E-06	1.2E-03	491.0E-06	1.6E-03	972.0E-06
Max	3.6E-03	2.0E-03	4.1E-03	1.4E-03	1.5E-03	3.6E-03	2.0E-03	4.4E-03	206.0E-06	1.4E-03	720.0E-06	1.8E-03	1.4E-03
Average	3.2E-03	1.6E-03	4.0E-03	1.2E-03	1.1E-03	3.4E-03	1.9E-03	4.4E-03	112.0E-06	1.3E-03	639.3E-06	1.7E-03	1.2E-03
Sigma	280.9E-06	318.9E-06	101.7E-06	157.9E-06	285.7E-06	121.0E-06	108.7E-06	36.7E-06	70.0E-06	99.4E-06	105.0E-06	127.5E-06	171.1E-06

Drift Calculation

VCLKL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-1.8E-03	685.0E-06	-1.8E-03	-2.3E-03	216.0E-06	-1.4E-03	1.2E-03	-3.1E-03	-1.8E-03	-2.7E-03	-1.4E-03	-2.2E-03
6076	-	-1.6E-03	523.0E-06	-2.3E-03	-2.1E-03	1.0E-06	-1.5E-03	809.0E-06	-3.5E-03	-2.2E-03	-2.9E-03	-1.7E-03	-2.2E-03
6077	-	-1.6E-03	1.0E-03	-1.9E-03	-2.0E-03	392.0E-06	-1.1E-03	1.5E-03	-2.7E-03	-1.7E-03	-2.2E-03	-1.3E-03	-1.7E-03
Average	-	-1.7E-03	737.7E-06	-2.0E-03	-2.1E-03	203.0E-06	-1.3E-03	1.2E-03	-3.1E-03	-1.9E-03	-2.6E-03	-1.5E-03	-2.0E-03
Sigma	-	107.9E-06	200.3E-06	198.0E-06	105.7E-06	159.9E-06	194.4E-06	298.2E-06	328.1E-06	200.0E-06	297.4E-06	173.2E-06	231.6E-06

Measurements

VCLKL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	3.2E-03	1.3E-03	3.9E-03	1.6E-03	1.0E-03	3.3E-03	1.5E-03	4.5E-03	111.0E-06	1.8E-03	818.0E-06	1.7E-03	876.0E-06
OFF TID samples													
6020	3.0E-03	1.6E-03	3.7E-03	1.2E-03	974.0E-06	3.1E-03	1.7E-03	4.2E-03	185.0E-06	1.2E-03	384.0E-06	1.4E-03	621.0E-06
6022	3.0E-03	1.6E-03	3.8E-03	1.5E-03	854.0E-06	3.1E-03	1.6E-03	4.1E-03	143.0E-06	978.0E-06	298.0E-06	1.4E-03	900.0E-06
6023	3.2E-03	1.5E-03	3.7E-03	1.3E-03	1.1E-03	3.6E-03	1.9E-03	4.2E-03	67.0E-06	1.7E-03	804.0E-06	1.6E-03	1.1E-03
Statistics													
Min	3.0E-03	1.5E-03	3.7E-03	1.2E-03	854.0E-06	3.1E-03	1.6E-03	4.1E-03	67.0E-06	978.0E-06	298.0E-06	1.4E-03	621.0E-06
Max	3.2E-03	1.6E-03	3.8E-03	1.5E-03	1.1E-03	3.6E-03	1.9E-03	4.2E-03	185.0E-06	1.7E-03	804.0E-06	1.6E-03	1.1E-03
Average	3.0E-03	1.5E-03	3.7E-03	1.3E-03	983.3E-06	3.3E-03	1.7E-03	4.2E-03	131.7E-06	1.3E-03	495.3E-06	1.5E-03	861.0E-06
Sigma	90.4E-06	38.3E-06	62.6E-06	134.3E-06	109.6E-06	222.7E-06	87.1E-06	49.1E-06	48.8E-06	296.2E-06	221.1E-06	83.0E-06	182.1E-06

Drift Calculation

VCLKL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-1.4E-03	734.0E-06	-1.7E-03	-2.0E-03	134.0E-06	-1.2E-03	1.3E-03	-2.8E-03	-1.8E-03	-2.6E-03	-1.5E-03	-2.3E-03
6022	-	-1.4E-03	848.0E-06	-1.4E-03	-2.1E-03	145.0E-06	-1.3E-03	1.2E-03	-2.8E-03	-2.0E-03	-2.7E-03	-1.5E-03	-2.1E-03
6023	-	-1.7E-03	525.0E-06	-1.9E-03	-2.0E-03	420.0E-06	-1.3E-03	1.1E-03	-3.1E-03	-1.5E-03	-2.4E-03	-1.5E-03	-2.1E-03
Average	-	-1.5E-03	702.3E-06	-1.7E-03	-2.0E-03	233.0E-06	-1.3E-03	1.2E-03	-2.9E-03	-1.7E-03	-2.5E-03	-1.5E-03	-2.2E-03
Sigma	-	127.2E-06	133.8E-06	177.1E-06	54.9E-06	132.3E-06	41.8E-06	78.0E-06	137.8E-06	213.0E-06	134.2E-06	7.6E-06	120.3E-06

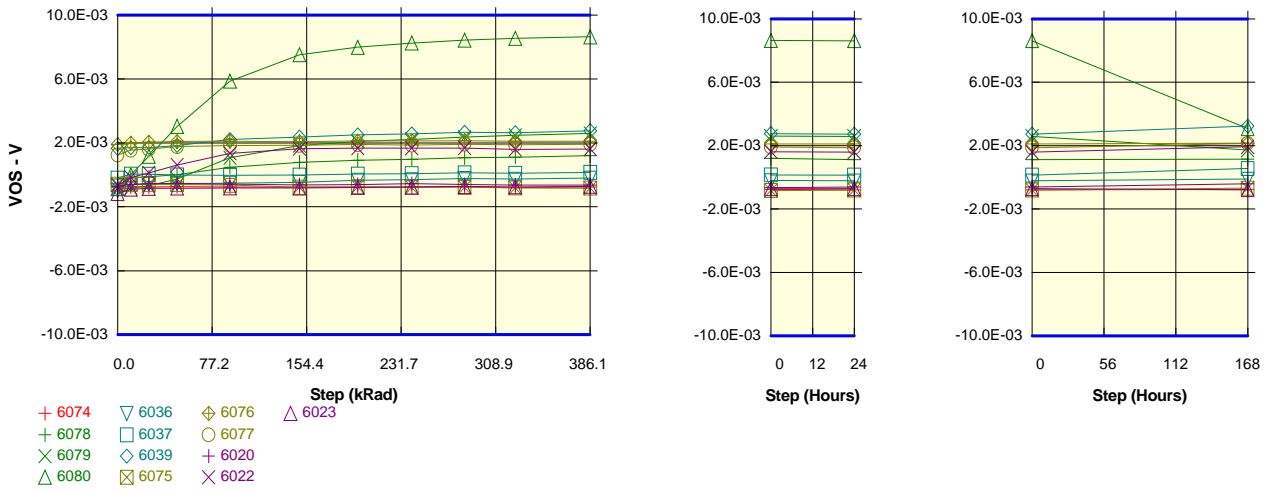
Parameter : Input Voltage : VOS
 Test conditions : Vcm=3V, VO=3V

Unit : V

Spec Limit Min : -10.0E-03

Spec Limit Max : 10.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

VOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-772.4E-06	-737.7E-06	-756.4E-06	-733.7E-06	-754.0E-06	-766.0E-06	-759.6E-06	-758.8E-06	-742.5E-06	-780.0E-06	-760.0E-06	-790.4E-06	-760.0E-06
ON PROTON samples													
6078	-262.5E-06	-174.2E-06	-120.7E-06	9.6E-06	479.5E-06	793.6E-06	919.9E-06	983.4E-06	1.1E-03	1.1E-03	1.2E-03	1.1E-03	1.2E-03
6079	-860.3E-06	-830.4E-06	-680.1E-06	-257.3E-06	1.1E-03	1.8E-03	2.1E-03	2.2E-03	2.4E-03	2.5E-03	2.6E-03	2.6E-03	1.7E-03
6080	-863.5E-06	2.8E-06	1.2E-03	3.0E-03	5.9E-03	7.5E-03	8.0E-03	8.3E-03	8.4E-03	8.6E-03	8.6E-03	8.6E-03	3.1E-03
Statistics													
Min	-863.5E-06	-830.4E-06	-680.1E-06	-257.3E-06	479.5E-06	793.6E-06	919.9E-06	983.4E-06	1.1E-03	1.1E-03	1.2E-03	1.1E-03	1.2E-03
Max	-262.5E-06	2.8E-06	1.2E-03	3.0E-03	5.9E-03	7.5E-03	8.0E-03	8.3E-03	8.4E-03	8.6E-03	8.6E-03	8.6E-03	3.1E-03
Average	-662.1E-06	-333.9E-06	122.4E-06	928.9E-06	2.5E-03	3.4E-03	3.7E-03	3.8E-03	4.0E-03	4.0E-03	4.1E-03	4.1E-03	2.0E-03
Sigma	282.6E-06	358.4E-06	773.8E-06	1.5E-03	2.4E-03	3.0E-03	3.1E-03	3.2E-03	3.2E-03	3.2E-03	3.2E-03	3.2E-03	806.0E-06

Drift Calculation

VOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	88.3E-06	141.9E-06	272.1E-06	742.1E-06	1.1E-03	1.2E-03	1.2E-03	1.3E-03	1.4E-03	1.5E-03	1.4E-03	1.4E-03
6079	-	30.0E-06	180.2E-06	603.0E-06	1.9E-03	2.7E-03	3.0E-03	3.1E-03	3.2E-03	3.3E-03	3.5E-03	3.5E-03	2.6E-03
6080	-	866.3E-06	2.0E-03	3.9E-03	6.7E-03	8.4E-03	8.9E-03	9.1E-03	9.3E-03	9.4E-03	9.5E-03	9.5E-03	3.9E-03
Average	-	328.2E-06	784.5E-06	1.6E-03	3.1E-03	4.0E-03	4.3E-03	4.5E-03	4.6E-03	4.7E-03	4.8E-03	4.8E-03	2.6E-03
Sigma	-	381.3E-06	881.9E-06	1.6E-03	2.6E-03	3.1E-03	3.3E-03	3.4E-03	3.4E-03	3.4E-03	3.4E-03	3.4E-03	1.0E-03

Measurements

VOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-772.4E-06	-737.7E-06	-756.4E-06	-733.7E-06	-754.0E-06	-766.0E-06	-759.6E-06	-758.8E-06	-742.5E-06	-780.0E-06	-760.0E-06	-790.4E-06	-760.0E-06
ON TID samples													
6036	-982.6E-06	-615.0E-06	-577.4E-06	-544.3E-06	-517.9E-06	-467.1E-06	-336.1E-06	-294.1E-06	-227.4E-06	-267.3E-06	-199.8E-06	-214.2E-06	-107.9E-06
6037	-197.4E-06	51.1E-06	37.2E-06	0.0E+00	-22.4E-06	-8.4E-06	52.7E-06	76.3E-06	130.3E-06	104.7E-06	161.0E-06	143.9E-06	560.2E-06
6039	1.7E-03	1.7E-03	1.7E-03	1.8E-03	2.2E-03	2.4E-03	2.5E-03	2.6E-03	2.7E-03	2.6E-03	2.8E-03	2.7E-03	3.2E-03
Statistics													
Min	-982.6E-06	-615.0E-06	-577.4E-06	-544.3E-06	-517.9E-06	-467.1E-06	-336.1E-06	-294.1E-06	-227.4E-06	-267.3E-06	-199.8E-06	-214.2E-06	-107.9E-06
Max	1.7E-03	1.7E-03	1.7E-03	1.8E-03	2.2E-03	2.4E-03	2.5E-03	2.6E-03	2.7E-03	2.6E-03	2.8E-03	2.7E-03	3.2E-03
Average	160.9E-06	382.4E-06	391.6E-06	433.7E-06	560.2E-06	631.4E-06	741.1E-06	783.9E-06	854.7E-06	826.5E-06	908.3E-06	889.2E-06	1.2E-03
Sigma	1.1E-03	978.1E-06	968.9E-06	1.0E-03	1.2E-03	1.2E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.4E-03

Drift Calculation

VOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	367.6E-06	405.2E-06	438.4E-06	464.7E-06	515.5E-06	646.6E-06	688.5E-06	755.2E-06	715.3E-06	782.8E-06	768.4E-06	874.7E-06
6037	-	248.6E-06	234.6E-06	197.4E-06	175.0E-06	189.0E-06	250.1E-06	273.7E-06	327.7E-06	302.1E-06	358.4E-06	341.3E-06	757.6E-06
6039	-	48.4E-06	52.3E-06	182.6E-06	558.2E-06	706.9E-06	844.0E-06	906.7E-06	998.6E-06	979.4E-06	1.1E-03	1.1E-03	1.6E-03
Average	-	221.5E-06	230.7E-06	272.8E-06	399.3E-06	470.5E-06	580.2E-06	623.0E-06	693.8E-06	665.6E-06	747.4E-06	728.3E-06	1.1E-03
Sigma	-	131.7E-06	144.1E-06	117.2E-06	163.1E-06	213.8E-06	246.9E-06	262.5E-06	277.3E-06	278.7E-06	304.1E-06	301.0E-06	358.4E-06

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-772.4E-06	-737.7E-06	-756.4E-06	-733.7E-06	-754.0E-06	-766.0E-06	-759.6E-06	-758.8E-06	-742.5E-06	-780.0E-06	-760.0E-06	-790.4E-06	-760.0E-06
OFF PROTON samples													
6075	-591.0E-06	-592.2E-06	-585.8E-06	-596.2E-06	-647.4E-06	-768.8E-06	-747.7E-06	-773.6E-06	-772.4E-06	-816.0E-06	-826.4E-06	-795.2E-06	-679.3E-06
6076	1.9E-03	2.0E-03	2.0E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.2E-03
6077	1.2E-03	1.6E-03	1.6E-03	1.8E-03	1.8E-03	1.8E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	2.1E-03
Statistics													
Min	-591.0E-06	-592.2E-06	-585.8E-06	-596.2E-06	-647.4E-06	-768.8E-06	-747.7E-06	-773.6E-06	-772.4E-06	-816.0E-06	-826.4E-06	-795.2E-06	-679.3E-06
Max	1.9E-03	2.0E-03	2.0E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.2E-03
Average	852.7E-06	985.4E-06	1.0E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.2E-03
Sigma	1.1E-03	1.1E-03	1.2E-03	1.2E-03	1.2E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03

Drift Calculation

VOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-1.2E-06	5.2E-06	-5.2E-06	-56.3E-06	-177.8E-06	-156.6E-06	-182.6E-06	-181.4E-06	-225.0E-06	-235.4E-06	-204.2E-06	-88.3E-06
6076	-	88.7E-06	133.9E-06	181.0E-06	199.4E-06	175.0E-06	215.4E-06	222.2E-06	239.0E-06	210.6E-06	199.4E-06	200.6E-06	249.8E-06
6077	-	310.5E-06	368.4E-06	529.5E-06	601.8E-06	606.6E-06	657.3E-06	625.4E-06	678.9E-06	644.6E-06	676.1E-06	630.6E-06	903.9E-06
Average	-	132.7E-06	169.2E-06	235.1E-06	248.3E-06	201.3E-06	238.7E-06	221.6E-06	245.5E-06	210.1E-06	213.4E-06	209.0E-06	355.1E-06
Sigma	-	131.0E-06	150.4E-06	221.6E-06	270.9E-06	320.8E-06	332.7E-06	329.9E-06	351.3E-06	355.0E-06	372.2E-06	340.8E-06	411.9E-06

Measurements

VOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-772.4E-06	-737.7E-06	-756.4E-06	-733.7E-06	-754.0E-06	-766.0E-06	-759.6E-06	-758.8E-06	-742.5E-06	-780.0E-06	-760.0E-06	-790.4E-06	-760.0E-06
OFF TID samples													
6020	-720.1E-06	-587.4E-06	-538.7E-06	-523.5E-06	-572.2E-06	-620.6E-06	-604.2E-06	-540.7E-06	-601.0E-06	-637.0E-06	-643.4E-06	-607.8E-06	-398.8E-06
6022	-645.0E-06	-159.8E-06	125.5E-06	615.4E-06	1.3E-03	1.6E-03	1.7E-03	1.7E-03	1.7E-03	1.6E-03	1.6E-03	1.6E-03	1.9E-03
6023	-1.2E-03	-895.5E-06	-832.8E-06	-830.4E-06	-812.0E-06	-824.4E-06	-781.6E-06	-756.4E-06	-725.7E-06	-745.7E-06	-716.1E-06	-710.1E-06	-782.8E-06
Statistics													
Min	-1.2E-03	-895.5E-06	-832.8E-06	-830.4E-06	-812.0E-06	-824.4E-06	-781.6E-06	-756.4E-06	-725.7E-06	-745.7E-06	-716.1E-06	-710.1E-06	-782.8E-06
Max	-645.0E-06	-159.8E-06	125.5E-06	615.4E-06	1.3E-03	1.6E-03	1.7E-03	1.7E-03	1.7E-03	1.6E-03	1.6E-03	1.6E-03	1.9E-03
Average	-841.2E-06	-547.6E-06	-415.3E-06	-246.2E-06	-11.6E-06	65.3E-06	95.8E-06	127.9E-06	120.1E-06	70.9E-06	86.3E-06	93.5E-06	248.8E-06
Sigma	226.5E-06	301.7E-06	400.8E-06	621.9E-06	967.4E-06	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.1E-03	1.2E-03

Drift Calculation

VOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	132.7E-06	181.4E-06	196.6E-06	147.9E-06	99.5E-06	115.9E-06	179.4E-06	119.1E-06	83.1E-06	76.7E-06	112.3E-06	321.3E-06
6022	-	485.1E-06	770.4E-06	1.3E-03	2.0E-03	2.3E-03	2.3E-03	2.3E-03	2.3E-03	2.2E-03	2.3E-03	2.2E-03	2.6E-03
6023	-	263.0E-06	325.7E-06	328.1E-06	346.5E-06	334.1E-06	376.9E-06	402.0E-06	432.8E-06	412.8E-06	442.4E-06	448.4E-06	375.7E-06
Average	-	293.6E-06	425.9E-06	595.0E-06	829.6E-06	906.4E-06	936.9E-06	969.0E-06	961.3E-06	912.0E-06	927.5E-06	934.7E-06	1.1E-03
Sigma	-	145.5E-06	250.7E-06	473.5E-06	827.6E-06	980.0E-06	982.4E-06	963.6E-06	977.7E-06	948.7E-06	956.3E-06	935.5E-06	1.0E-03

Parameter : Input Bias Current : IIBIN+

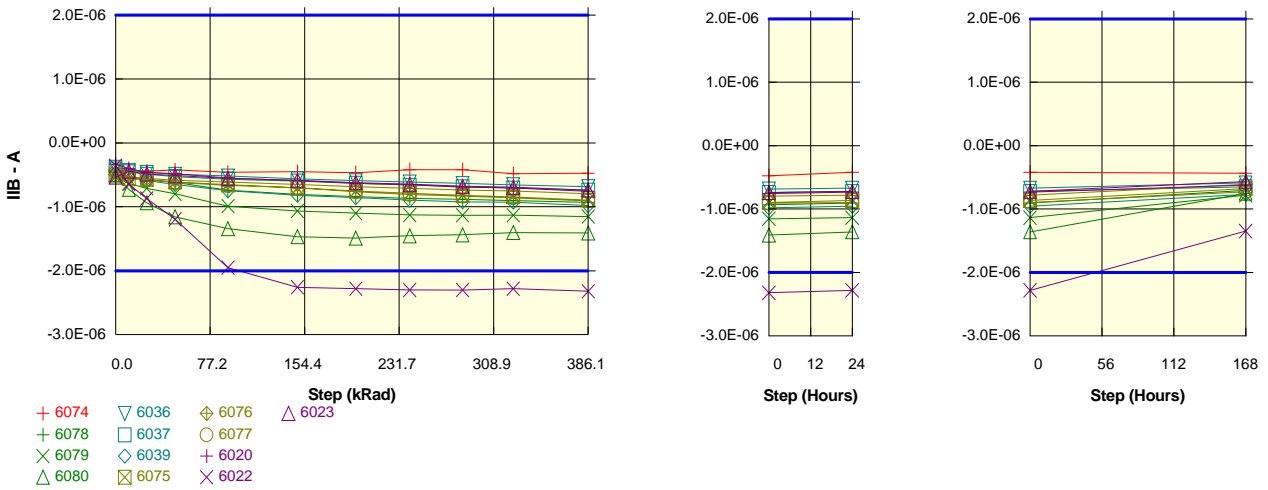
Test conditions : Vcm=3V, VO=3V

Unit : A

Spec Limit Min : -2.0E-06

Spec Limit Max : 2.0E-06

Spec limits are represented in bold lines on the graphic.



Measurements

IIBIN+	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	-460.7E-09	-424.0E-09	-442.0E-09	-422.0E-09	-457.9E-09	-451.5E-09	-464.3E-09	-417.2E-09	-418.4E-09	-479.5E-09	-474.3E-09	-418.8E-09	-432.4E-09
ON PROTON samples													
6078	-496.7E-09	-533.5E-09	-570.2E-09	-618.2E-09	-741.7E-09	-801.6E-09	-839.6E-09	-866.7E-09	-883.1E-09	-901.1E-09	-932.7E-09	-903.9E-09	-704.9E-09
6079	-531.5E-09	-631.8E-09	-711.7E-09	-796.4E-09	-988.6E-09	-1.1E-06	-1.1E-06	-1.1E-06	-1.1E-06	-1.1E-06	-1.2E-06	-1.1E-06	-780.0E-09
6080	-491.5E-09	-726.9E-09	-937.5E-09	-1.2E-06	-1.3E-06	-1.5E-06	-1.5E-06	-1.5E-06	-1.4E-06	-1.4E-06	-1.4E-06	-1.4E-06	-751.6E-09
Statistics													
Min	-531.5E-09	-726.9E-09	-937.5E-09	-1.2E-06	-1.3E-06	-1.5E-06	-1.5E-06	-1.5E-06	-1.4E-06	-1.4E-06	-1.4E-06	-1.4E-06	-780.0E-09
Max	-491.5E-09	-533.5E-09	-570.2E-09	-618.2E-09	-741.7E-09	-801.6E-09	-839.6E-09	-866.7E-09	-883.1E-09	-901.1E-09	-932.7E-09	-903.9E-09	-704.9E-09
Average	-506.6E-09	-630.7E-09	-739.8E-09	-857.3E-09	-1.0E-06	-1.1E-06	-1.1E-06	-1.1E-06	-1.2E-06	-1.1E-06	-1.2E-06	-1.1E-06	-745.5E-09
Sigma	17.7E-09	79.0E-09	151.2E-09	224.2E-09	246.0E-09	273.6E-09	266.6E-09	239.5E-09	226.5E-09	205.3E-09	194.5E-09	186.3E-09	31.0E-09

Drift Calculation

IIBIN+	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-36.8E-09	-73.5E-09	-121.5E-09	-245.0E-09	-304.9E-09	-342.9E-09	-370.0E-09	-386.4E-09	-404.4E-09	-436.0E-09	-407.2E-09	-208.2E-09
6079	-	-100.3E-09	-180.2E-09	-264.9E-09	-457.1E-09	-533.5E-09	-566.6E-09	-594.6E-09	-600.6E-09	-598.2E-09	-620.6E-09	-602.2E-09	-248.6E-09
6080	-	-235.4E-09	-446.0E-09	-665.7E-09	-849.6E-09	-975.4E-09	-996.6E-09	-960.6E-09	-945.5E-09	-911.9E-09	-917.1E-09	-868.7E-09	-260.1E-09
Average	-	-124.1E-09	-233.2E-09	-350.7E-09	-517.2E-09	-604.6E-09	-635.4E-09	-641.8E-09	-644.2E-09	-638.2E-09	-657.9E-09	-626.0E-09	-239.0E-09
Sigma	-	82.8E-09	156.6E-09	230.3E-09	250.5E-09	278.3E-09	271.3E-09	243.4E-09	230.3E-09	209.1E-09	198.2E-09	189.2E-09	22.3E-09

Measurements

IIBIN+	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	-460.7E-09	-424.0E-09	-442.0E-09	-422.0E-09	-457.9E-09	-451.5E-09	-464.3E-09	-417.2E-09	-418.4E-09	-479.5E-09	-474.3E-09	-418.8E-09	-432.4E-09
ON TID samples													
6036	-381.6E-09	-431.2E-09	-460.7E-09	-490.7E-09	-517.5E-09	-559.4E-09	-589.8E-09	-611.8E-09	-633.4E-09	-655.7E-09	-684.1E-09	-669.3E-09	-585.8E-09
6037	-406.4E-09	-453.5E-09	-489.9E-09	-526.7E-09	-567.4E-09	-596.6E-09	-631.0E-09	-661.3E-09	-685.7E-09	-704.9E-09	-736.9E-09	-721.7E-09	-648.2E-09
6039	-419.2E-09	-523.9E-09	-587.8E-09	-649.8E-09	-748.5E-09	-818.4E-09	-855.9E-09	-896.3E-09	-922.7E-09	-926.3E-09	-980.2E-09	-955.8E-09	-766.0E-09
Statistics													
Min	-419.2E-09	-523.9E-09	-587.8E-09	-649.8E-09	-748.5E-09	-818.4E-09	-855.9E-09	-896.3E-09	-922.7E-09	-926.3E-09	-980.2E-09	-955.8E-09	-766.0E-09
Max	-381.6E-09	-431.2E-09	-460.7E-09	-490.7E-09	-517.5E-09	-559.4E-09	-589.8E-09	-611.8E-09	-633.4E-09	-655.7E-09	-684.1E-09	-669.3E-09	-585.8E-09
Average	-402.4E-09	-469.5E-09	-512.8E-09	-555.7E-09	-611.1E-09	-658.1E-09	-692.2E-09	-723.1E-09	-747.3E-09	-762.3E-09	-800.4E-09	-782.3E-09	-666.7E-09
Sigma	15.6E-09	39.5E-09	54.3E-09	68.1E-09	99.2E-09	114.3E-09	117.0E-09	124.1E-09	125.9E-09	117.7E-09	129.0E-09	124.6E-09	74.7E-09

Drift Calculation

IIBIN+	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-49.6E-09	-79.1E-09	-109.1E-09	-135.9E-09	-177.8E-09	-208.2E-09	-230.2E-09	-251.7E-09	-274.1E-09	-302.5E-09	-287.7E-09	-204.2E-09
6037	-	-47.2E-09	-83.5E-09	-120.3E-09	-161.0E-09	-190.2E-09	-224.6E-09	-254.9E-09	-279.3E-09	-298.5E-09	-330.5E-09	-315.3E-09	-241.8E-09
6039	-	-104.7E-09	-168.6E-09	-230.6E-09	-329.3E-09	-399.2E-09	-436.8E-09	-477.1E-09	-503.5E-09	-507.1E-09	-561.0E-09	-536.7E-09	-346.9E-09
Average	-	-67.1E-09	-110.4E-09	-153.3E-09	-208.7E-09	-255.7E-09	-289.8E-09	-320.7E-09	-344.9E-09	-359.9E-09	-398.0E-09	-379.9E-09	-264.3E-09
Sigma	-	26.6E-09	41.2E-09	54.8E-09	85.9E-09	101.6E-09	104.1E-09	111.0E-09	112.7E-09	104.6E-09	115.8E-09	111.4E-09	60.4E-09

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

IIBIN+	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-460.7E-09	-424.0E-09	-442.0E-09	-422.0E-09	-457.9E-09	-451.5E-09	-464.3E-09	-417.2E-09	-418.4E-09	-479.5E-09	-474.3E-09	-418.8E-09	-432.4E-09
OFF PROTON samples													
6075	-513.5E-09	-559.4E-09	-572.6E-09	-612.6E-09	-652.5E-09	-705.7E-09	-752.8E-09	-789.2E-09	-820.4E-09	-841.6E-09	-893.1E-09	-864.7E-09	-676.5E-09
6076	-492.7E-09	-535.1E-09	-553.4E-09	-583.4E-09	-613.4E-09	-649.8E-09	-683.3E-09	-708.9E-09	-735.3E-09	-752.8E-09	-794.4E-09	-781.2E-09	-609.0E-09
6077	-430.0E-09	-520.7E-09	-580.6E-09	-618.2E-09	-665.3E-09	-698.9E-09	-763.2E-09	-806.8E-09	-830.4E-09	-858.3E-09	-907.9E-09	-894.7E-09	-728.1E-09
Statistics													
Min	-513.5E-09	-559.4E-09	-580.6E-09	-618.2E-09	-665.3E-09	-705.7E-09	-763.2E-09	-806.8E-09	-830.4E-09	-858.3E-09	-907.9E-09	-894.7E-09	-728.1E-09
Max	-430.0E-09	-520.7E-09	-553.4E-09	-583.4E-09	-613.4E-09	-649.8E-09	-683.3E-09	-708.9E-09	-735.3E-09	-752.8E-09	-794.4E-09	-781.2E-09	-609.0E-09
Average	-478.7E-09	-538.4E-09	-568.9E-09	-604.7E-09	-643.8E-09	-684.8E-09	-733.1E-09	-768.3E-09	-795.3E-09	-817.6E-09	-865.1E-09	-846.9E-09	-671.2E-09
Sigma	35.5E-09	16.0E-09	11.4E-09	15.2E-09	22.1E-09	24.9E-09	35.5E-09	42.6E-09	42.7E-09	46.3E-09	50.4E-09	48.0E-09	48.8E-09

Drift Calculation

IIBIN+	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-46.0E-09	-59.1E-09	-99.1E-09	-139.1E-09	-192.2E-09	-239.4E-09	-275.7E-09	-306.9E-09	-328.1E-09	-379.6E-09	-351.2E-09	-163.0E-09
6076	-	-42.4E-09	-60.7E-09	-90.7E-09	-120.7E-09	-157.0E-09	-190.6E-09	-216.2E-09	-242.6E-09	-260.1E-09	-301.7E-09	-288.5E-09	-116.3E-09
6077	-	-90.7E-09	-150.6E-09	-188.2E-09	-235.4E-09	-268.9E-09	-333.3E-09	-376.8E-09	-400.4E-09	-428.4E-09	-477.9E-09	-464.7E-09	-298.1E-09
Average	-	-59.7E-09	-90.2E-09	-126.0E-09	-165.0E-09	-206.1E-09	-254.4E-09	-289.6E-09	-316.6E-09	-338.9E-09	-386.4E-09	-368.2E-09	-192.5E-09
Sigma	-	22.0E-09	42.8E-09	44.1E-09	50.3E-09	46.7E-09	59.2E-09	66.3E-09	64.8E-09	69.1E-09	72.1E-09	72.9E-09	77.1E-09

Measurements

IIBIN+	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-460.7E-09	-424.0E-09	-442.0E-09	-422.0E-09	-457.9E-09	-451.5E-09	-464.3E-09	-417.2E-09	-418.4E-09	-479.5E-09	-474.3E-09	-418.8E-09	-432.4E-09
OFF TID samples													
6020	-330.5E-09	-400.4E-09	-455.9E-09	-479.5E-09	-550.2E-09	-590.2E-09	-632.6E-09	-650.9E-09	-694.1E-09	-704.5E-09	-754.4E-09	-731.3E-09	-622.6E-09
6022	-356.4E-09	-644.2E-09	-869.5E-09	-1.2E-06	-2.0E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.3E-06	-1.3E-06
6023	-535.9E-09	-440.0E-09	-483.5E-09	-509.5E-09	-553.4E-09	-584.2E-09	-620.6E-09	-645.8E-09	-676.5E-09	-693.7E-09	-738.5E-09	-720.9E-09	-565.8E-09
Statistics													
Min	-535.9E-09	-644.2E-09	-869.5E-09	-1.2E-06	-2.0E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.3E-06	-1.3E-06
Max	-330.5E-09	-400.4E-09	-455.9E-09	-479.5E-09	-550.2E-09	-584.2E-09	-620.6E-09	-645.8E-09	-676.5E-09	-693.7E-09	-738.5E-09	-720.9E-09	-565.8E-09
Average	-407.6E-09	-494.8E-09	-603.0E-09	-727.9E-09	-1.0E-06	-1.1E-06	-1.2E-06	-1.2E-06	-1.2E-06	-1.2E-06	-1.3E-06	-1.2E-06	-844.5E-09
Sigma	91.3E-09	106.8E-09	188.8E-09	330.4E-09	660.3E-09	788.1E-09	779.5E-09	778.5E-09	762.4E-09	745.5E-09	742.0E-09	733.4E-09	354.7E-09

Drift Calculation

IIBIN+	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-69.9E-09	-125.5E-09	-149.1E-09	-219.8E-09	-259.7E-09	-302.1E-09	-320.5E-09	-363.6E-09	-374.0E-09	-424.0E-09	-400.8E-09	-292.1E-09
6022	-	-287.7E-09	-513.1E-09	-838.4E-09	-1.6E-06	-1.9E-06	-1.9E-06	-1.9E-06	-1.9E-06	-1.9E-06	-2.0E-06	-1.9E-06	-988.6E-09
6023	-	95.9E-09	52.4E-09	26.4E-09	-17.5E-09	-48.3E-09	-84.7E-09	-109.9E-09	-140.6E-09	-157.8E-09	-202.6E-09	-185.0E-09	-29.9E-09
Average	-	-87.2E-09	-195.4E-09	-320.3E-09	-611.1E-09	-736.9E-09	-770.1E-09	-791.2E-09	-816.8E-09	-818.6E-09	-863.5E-09	-837.0E-09	-436.9E-09
Sigma	-	157.1E-09	236.1E-09	373.2E-09	701.3E-09	828.7E-09	820.5E-09	819.2E-09	803.7E-09	786.6E-09	783.4E-09	774.5E-09	404.5E-09

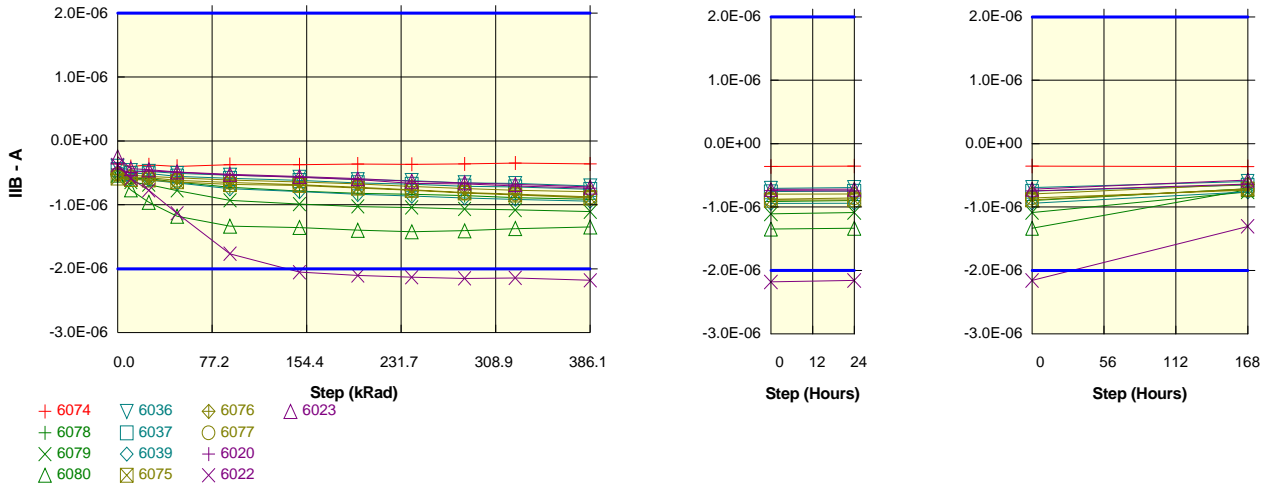
Parameter : Input Bias Current : IIBIN-
 Test conditions : Vcm=3V, VO=3V

Unit : A

Spec Limit Min : -2.0E-06

Spec Limit Max : 2.0E-06

Spec limits are represented in bold lines on the graphic.



Measurements

IIBIN-	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	-356.4E-09	-400.0E-09	-374.0E-09	-397.9E-09	-369.5E-09	-370.2E-09	-361.8E-09	-364.9E-09	-360.0E-09	-345.6E-09	-358.8E-09	-353.1E-09	-363.1E-09
ON PROTON samples													
6078	-525.5E-09	-584.2E-09	-589.4E-09	-643.8E-09	-722.9E-09	-782.0E-09	-818.8E-09	-836.8E-09	-855.1E-09	-885.5E-09	-911.5E-09	-895.5E-09	-708.9E-09
6079	-537.5E-09	-641.3E-09	-684.1E-09	-775.1E-09	-930.7E-09	-987.4E-09	-1.0E-06	-1.0E-06	-1.1E-06	-1.1E-06	-1.1E-06	-1.1E-06	-759.2E-09
6080	-536.0E-09	-767.2E-09	-959.8E-09	-1.2E-06	-1.3E-06	-1.4E-06	-1.4E-06	-1.4E-06	-1.4E-06	-1.4E-06	-1.3E-06	-1.3E-06	-724.5E-09
Statistics													
Min	-537.5E-09	-767.2E-09	-959.8E-09	-1.2E-06	-1.3E-06	-1.4E-06	-1.4E-06	-1.4E-06	-1.4E-06	-1.4E-06	-1.3E-06	-1.3E-06	-759.2E-09
Max	-525.5E-09	-584.2E-09	-589.4E-09	-643.8E-09	-722.9E-09	-782.0E-09	-818.8E-09	-836.8E-09	-855.1E-09	-885.5E-09	-911.5E-09	-895.5E-09	-708.9E-09
Average	-533.0E-09	-664.3E-09	-744.4E-09	-865.8E-09	-995.9E-09	-1.0E-06	-1.1E-06	-1.1E-06	-1.1E-06	-1.1E-06	-1.1E-06	-1.1E-06	-730.9E-09
Sigma	5.4E-09	76.5E-09	157.1E-09	227.5E-09	253.8E-09	236.9E-09	239.0E-09	241.9E-09	226.3E-09	199.2E-09	177.6E-09	179.7E-09	21.0E-09

Drift Calculation

IIBIN-	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-58.7E-09	-63.9E-09	-118.3E-09	-197.4E-09	-256.5E-09	-293.3E-09	-311.3E-09	-329.7E-09	-360.0E-09	-386.0E-09	-370.0E-09	-183.4E-09
6079	-	-103.8E-09	-146.6E-09	-237.6E-09	-393.2E-09	-449.9E-09	-487.1E-09	-503.9E-09	-528.2E-09	-541.0E-09	-568.6E-09	-547.8E-09	-221.7E-09
6080	-	-231.2E-09	-423.8E-09	-642.4E-09	-798.2E-09	-818.6E-09	-860.2E-09	-884.6E-09	-868.6E-09	-834.2E-09	-809.8E-09	-798.2E-09	-188.5E-09
Average	-	-131.3E-09	-211.4E-09	-332.8E-09	-462.9E-09	-508.4E-09	-546.9E-09	-566.6E-09	-575.5E-09	-578.4E-09	-588.1E-09	-572.0E-09	-197.9E-09
Sigma	-	73.0E-09	153.9E-09	224.3E-09	250.2E-09	233.2E-09	235.3E-09	238.2E-09	222.5E-09	195.4E-09	173.6E-09	175.7E-09	17.0E-09

Measurements

IIBIN-	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	-356.4E-09	-400.0E-09	-374.0E-09	-397.9E-09	-369.5E-09	-370.2E-09	-361.8E-09	-364.9E-09	-360.0E-09	-345.6E-09	-358.8E-09	-353.1E-09	-363.1E-09
ON TID samples													
6036	-394.1E-09	-463.7E-09	-477.0E-09	-506.3E-09	-535.4E-09	-565.7E-09	-605.0E-09	-620.2E-09	-656.1E-09	-666.1E-09	-703.3E-09	-691.7E-09	-596.6E-09
6037	-448.4E-09	-509.9E-09	-511.1E-09	-552.6E-09	-586.2E-09	-618.6E-09	-654.5E-09	-678.1E-09	-707.3E-09	-719.7E-09	-757.2E-09	-748.1E-09	-652.9E-09
6039	-520.7E-09	-591.8E-09	-611.0E-09	-656.1E-09	-749.3E-09	-791.6E-09	-835.6E-09	-863.5E-09	-889.9E-09	-914.7E-09	-942.7E-09	-937.1E-09	-760.0E-09
Statistics													
Min	-520.7E-09	-591.8E-09	-611.0E-09	-656.1E-09	-749.3E-09	-791.6E-09	-835.6E-09	-863.5E-09	-889.9E-09	-914.7E-09	-942.7E-09	-937.1E-09	-760.0E-09
Max	-394.1E-09	-463.7E-09	-477.0E-09	-506.3E-09	-535.4E-09	-565.7E-09	-605.0E-09	-620.2E-09	-656.1E-09	-666.1E-09	-703.3E-09	-691.7E-09	-596.6E-09
Average	-454.4E-09	-521.8E-09	-533.0E-09	-571.7E-09	-623.6E-09	-658.6E-09	-698.4E-09	-720.6E-09	-751.1E-09	-766.8E-09	-801.1E-09	-792.3E-09	-669.9E-09
Sigma	51.9E-09	53.0E-09	56.8E-09	62.6E-09	91.2E-09	96.5E-09	99.1E-09	103.8E-09	100.3E-09	106.8E-09	102.5E-09	104.9E-09	67.8E-09

Drift Calculation

IIBIN-	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-69.7E-09	-83.0E-09	-112.2E-09	-141.3E-09	-171.6E-09	-210.9E-09	-226.1E-09	-262.1E-09	-272.0E-09	-309.2E-09	-297.6E-09	-202.5E-09
6037	-	-61.5E-09	-62.7E-09	-104.3E-09	-137.9E-09	-170.2E-09	-206.2E-09	-229.8E-09	-258.9E-09	-271.3E-09	-308.9E-09	-299.7E-09	-204.6E-09
6039	-	-71.1E-09	-90.3E-09	-135.5E-09	-228.6E-09	-270.9E-09	-314.9E-09	-342.9E-09	-369.2E-09	-394.0E-09	-422.0E-09	-416.4E-09	-239.4E-09
Average	-	-67.4E-09	-78.7E-09	-117.3E-09	-169.3E-09	-204.2E-09	-244.0E-09	-266.2E-09	-296.7E-09	-312.5E-09	-346.7E-09	-337.9E-09	-215.5E-09
Sigma	-	4.2E-09	11.7E-09	13.2E-09	42.0E-09	47.2E-09	50.2E-09	54.2E-09	51.3E-09	57.7E-09	53.2E-09	55.5E-09	16.9E-09

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

IIBIN-	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-356.4E-09	-400.0E-09	-374.0E-09	-397.9E-09	-369.5E-09	-370.2E-09	-361.8E-09	-364.9E-09	-360.0E-09	-345.6E-09	-358.8E-09	-353.1E-09	-363.1E-09
OFF PROTON samples													
6075	-578.3E-09	-603.0E-09	-610.7E-09	-639.6E-09	-682.0E-09	-695.5E-09	-736.9E-09	-772.0E-09	-814.1E-09	-843.9E-09	-891.0E-09	-886.7E-09	-713.8E-09
6076	-522.3E-09	-536.3E-09	-554.2E-09	-575.8E-09	-611.8E-09	-640.2E-09	-673.3E-09	-712.9E-09	-742.5E-09	-770.4E-09	-794.0E-09	-791.6E-09	-639.4E-09
6077	-524.3E-09	-575.0E-09	-573.4E-09	-615.0E-09	-649.7E-09	-685.3E-09	-724.1E-09	-765.2E-09	-809.2E-09	-830.4E-09	-875.5E-09	-856.3E-09	-730.9E-09
Statistics													
Min	-578.3E-09	-603.0E-09	-610.7E-09	-639.6E-09	-682.0E-09	-695.5E-09	-736.9E-09	-772.0E-09	-814.1E-09	-843.9E-09	-891.0E-09	-886.7E-09	-730.9E-09
Max	-522.3E-09	-536.3E-09	-554.2E-09	-575.8E-09	-611.8E-09	-640.2E-09	-673.3E-09	-712.9E-09	-742.5E-09	-770.4E-09	-794.0E-09	-791.6E-09	-639.4E-09
Average	-541.6E-09	-571.4E-09	-579.5E-09	-610.1E-09	-647.8E-09	-673.6E-09	-711.4E-09	-750.0E-09	-788.6E-09	-814.9E-09	-853.5E-09	-844.9E-09	-694.7E-09
Sigma	26.0E-09	27.3E-09	23.5E-09	26.3E-09	28.7E-09	24.0E-09	27.5E-09	26.4E-09	32.7E-09	31.9E-09	42.6E-09	39.7E-09	39.7E-09

Drift Calculation

IIBIN-	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-24.7E-09	-32.4E-09	-61.3E-09	-103.7E-09	-117.2E-09	-158.6E-09	-193.7E-09	-235.8E-09	-265.6E-09	-312.7E-09	-308.4E-09	-135.5E-09
6076	-	-14.0E-09	-32.0E-09	-53.5E-09	-89.5E-09	-117.9E-09	-151.0E-09	-190.6E-09	-220.2E-09	-248.2E-09	-271.7E-09	-269.3E-09	-117.1E-09
6077	-	-50.7E-09	-49.2E-09	-90.7E-09	-125.5E-09	-161.0E-09	-199.8E-09	-241.0E-09	-284.9E-09	-306.1E-09	-351.2E-09	-332.1E-09	-206.6E-09
Average	-	-29.8E-09	-37.9E-09	-68.5E-09	-106.2E-09	-132.0E-09	-169.8E-09	-208.4E-09	-247.0E-09	-273.3E-09	-311.9E-09	-303.3E-09	-153.1E-09
Sigma	-	15.4E-09	8.0E-09	16.0E-09	14.8E-09	20.5E-09	21.4E-09	23.0E-09	27.6E-09	24.3E-09	32.5E-09	25.9E-09	38.6E-09

Measurements

IIBIN-	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-356.4E-09	-400.0E-09	-374.0E-09	-397.9E-09	-369.5E-09	-370.2E-09	-361.8E-09	-364.9E-09	-360.0E-09	-345.6E-09	-358.8E-09	-353.1E-09	-363.1E-09
OFF TID samples													
6020	-439.1E-09	-494.0E-09	-469.7E-09	-488.3E-09	-534.5E-09	-568.4E-09	-605.6E-09	-665.5E-09	-673.0E-09	-705.9E-09	-741.3E-09	-743.2E-09	-635.3E-09
6022	-375.5E-09	-587.8E-09	-773.2E-09	-1.1E-06	-1.8E-06	-2.1E-06	-2.1E-06	-2.1E-06	-2.2E-06	-2.1E-06	-2.2E-06	-2.2E-06	-1.3E-06
6023	-247.7E-09	-435.0E-09	-450.4E-09	-484.7E-09	-521.9E-09	-556.6E-09	-589.2E-09	-630.6E-09	-656.1E-09	-682.2E-09	-721.0E-09	-717.3E-09	-573.7E-09
Statistics													
Min	-439.1E-09	-587.8E-09	-773.2E-09	-1.1E-06	-1.8E-06	-2.1E-06	-2.1E-06	-2.1E-06	-2.2E-06	-2.1E-06	-2.2E-06	-2.2E-06	-1.3E-06
Max	-247.7E-09	-435.0E-09	-450.4E-09	-484.7E-09	-521.9E-09	-556.6E-09	-589.2E-09	-630.6E-09	-656.1E-09	-682.2E-09	-721.0E-09	-717.3E-09	-573.7E-09
Average	-354.1E-09	-505.6E-09	-564.4E-09	-702.1E-09	-940.8E-09	-1.1E-06	-1.1E-06	-1.1E-06	-1.2E-06	-1.2E-06	-1.2E-06	-1.2E-06	-837.2E-09
Sigma	79.6E-09	62.9E-09	147.8E-09	304.9E-09	583.4E-09	702.7E-09	710.4E-09	700.0E-09	700.8E-09	683.3E-09	683.1E-09	672.5E-09	330.1E-09

Drift Calculation

IIBIN-	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-54.9E-09	-30.5E-09	-49.2E-09	-95.4E-09	-129.3E-09	-166.5E-09	-226.4E-09	-233.9E-09	-266.7E-09	-302.2E-09	-304.1E-09	-196.2E-09
6022	-	-212.3E-09	-397.7E-09	-757.7E-09	-1.4E-06	-1.7E-06	-1.7E-06	-1.8E-06	-1.8E-06	-1.8E-06	-1.8E-06	-1.8E-06	-927.2E-09
6023	-	-187.3E-09	-202.7E-09	-237.0E-09	-274.2E-09	-308.9E-09	-341.5E-09	-382.9E-09	-408.4E-09	-434.5E-09	-473.3E-09	-469.6E-09	-326.0E-09
Average	-	-151.5E-09	-210.3E-09	-348.0E-09	-586.6E-09	-705.3E-09	-745.6E-09	-788.8E-09	-805.9E-09	-823.0E-09	-860.1E-09	-851.6E-09	-483.1E-09
Sigma	-	69.1E-09	150.0E-09	299.7E-09	572.9E-09	691.4E-09	698.9E-09	687.7E-09	689.3E-09	671.6E-09	671.6E-09	660.7E-09	318.4E-09

Parameter : Input Offset Current : IOS

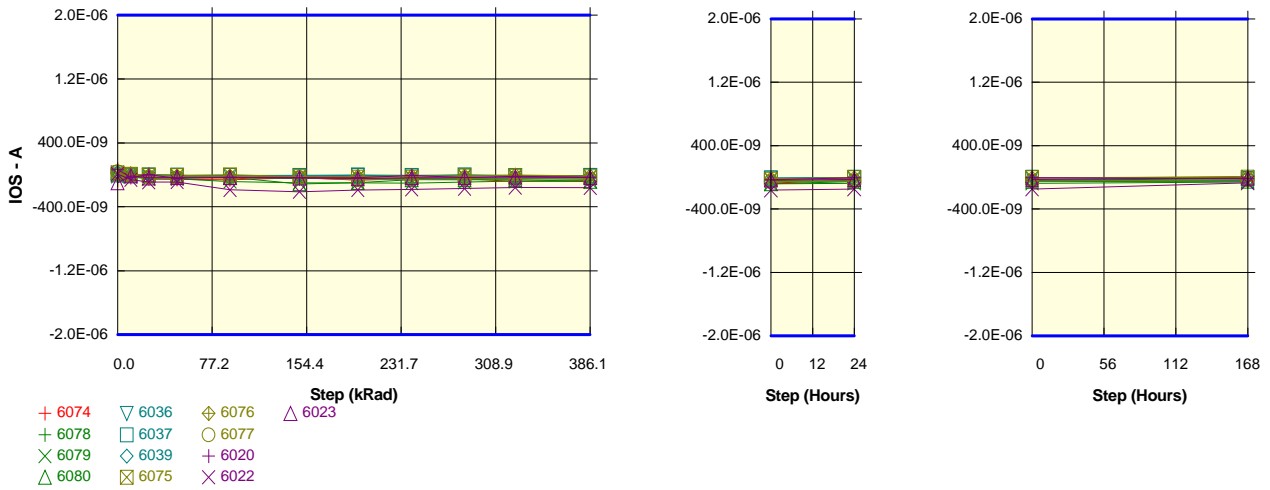
Test conditions : Vcm=3V. VO=3V

Unit : A

Spec Limit Min : -2.0E-06

Spec Limit Max : 2.0E-06

Spec limits are represented in bold lines on the graphic.



Measurements

IOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-65.9E-09	-11.4E-09	-48.8E-09	-55.1E-09	-59.9E-09	-37.0E-09	-63.9E-09	-47.2E-09	-47.6E-09	-79.9E-09	-71.1E-09	-39.5E-09	-38.4E-09
ON PROTON samples													
6078	20.8E-09	12.8E-09	0.0E+00	399.4E-12	-31.2E-09	-42.4E-09	-42.0E-09	-44.8E-09	-52.3E-09	-34.8E-09	-38.8E-09	-32.4E-09	-19.6E-09
6079	-18.8E-09	-23.3E-09	-51.5E-09	-49.2E-09	-83.5E-09	-99.5E-09	-99.5E-09	-102.3E-09	-91.1E-09	-78.3E-09	-81.9E-09	-73.1E-09	-58.3E-09
6080	33.0E-09	9.2E-09	-2.8E-09	-10.8E-09	-30.4E-09	-111.5E-09	-95.5E-09	-59.1E-09	-60.3E-09	-56.7E-09	-79.5E-09	-51.9E-09	-48.4E-09
Statistics													
Min	-18.8E-09	-23.3E-09	-51.5E-09	-49.2E-09	-83.5E-09	-111.5E-09	-99.5E-09	-102.3E-09	-91.1E-09	-78.3E-09	-81.9E-09	-73.1E-09	-58.3E-09
Max	33.0E-09	12.8E-09	0.0E+00	399.4E-12	-30.4E-09	-42.4E-09	-42.0E-09	-44.8E-09	-52.3E-09	-34.8E-09	-38.8E-09	-32.4E-09	-19.6E-09
Average	11.7E-09	-426.2E-12	-18.1E-09	-19.8E-09	-48.4E-09	-84.4E-09	-79.0E-09	-68.7E-09	-67.9E-09	-56.6E-09	-66.7E-09	-52.5E-09	-42.1E-09
Sigma	22.1E-09	16.2E-09	23.7E-09	21.2E-09	24.9E-09	30.2E-09	26.2E-09	24.5E-09	16.7E-09	17.8E-09	19.8E-09	16.6E-09	16.4E-09

Drift Calculation

IOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-8.0E-09	-20.8E-09	-20.4E-09	-51.9E-09	-63.1E-09	-62.7E-09	-65.5E-09	-73.1E-09	-55.5E-09	-59.5E-09	-53.1E-09	-40.4E-09
6079	-	-4.5E-09	-32.8E-09	-30.4E-09	-64.7E-09	-80.7E-09	-80.7E-09	-83.5E-09	-72.3E-09	-59.5E-09	-63.1E-09	-54.3E-09	-39.6E-09
6080	-	-23.8E-09	-35.8E-09	-43.8E-09	-63.3E-09	-144.5E-09	-128.5E-09	-92.1E-09	-93.3E-09	-89.7E-09	-112.5E-09	-84.9E-09	-81.3E-09
Average	-	-12.1E-09	-29.8E-09	-31.5E-09	-60.0E-09	-96.1E-09	-90.6E-09	-80.4E-09	-79.6E-09	-68.3E-09	-78.4E-09	-64.1E-09	-53.7E-09
Sigma	-	8.4E-09	6.5E-09	9.6E-09	5.7E-09	34.9E-09	27.7E-09	11.1E-09	9.7E-09	15.3E-09	24.2E-09	14.7E-09	19.5E-09

Measurements

IOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-65.9E-09	-11.4E-09	-48.8E-09	-55.1E-09	-59.9E-09	-37.0E-09	-63.9E-09	-47.2E-09	-47.6E-09	-79.9E-09	-71.1E-09	-39.5E-09	-38.4E-09
ON TID samples													
6036	-8.2E-09	-2.4E-09	-6.8E-09	-6.8E-09	-6.8E-09	-13.6E-09	-5.2E-09	-13.6E-09	-2.4E-09	-11.2E-09	-6.8E-09	-799.3E-12	-12.4E-09
6037	0.0E+00	-2.4E-09	799.1E-12	-2.8E-09	-7.2E-09	-4.8E-09	-799.3E-12	-4.4E-09	-1.6E-09	-8.4E-09	-6.0E-09	-399.4E-12	-17.6E-09
6039	33.6E-09	9.2E-09	-12.0E-09	-17.6E-09	-28.0E-09	-45.6E-09	-44.8E-09	-52.7E-09	-49.6E-09	-42.0E-09	-53.9E-09	-42.4E-09	-35.6E-09
Statistics													
Min	-8.2E-09	-2.4E-09	-12.0E-09	-17.6E-09	-28.0E-09	-45.6E-09	-44.8E-09	-52.7E-09	-49.6E-09	-42.0E-09	-53.9E-09	-42.4E-09	-35.6E-09
Max	33.6E-09	9.2E-09	799.1E-12	-2.8E-09	-6.8E-09	-4.8E-09	-799.3E-12	-4.4E-09	-1.6E-09	-8.4E-09	-6.0E-09	-399.4E-12	-12.4E-09
Average	8.5E-09	1.5E-09	-6.0E-09	-9.1E-09	-14.0E-09	-21.3E-09	-16.9E-09	-23.6E-09	-17.8E-09	-20.5E-09	-22.2E-09	-14.5E-09	-21.8E-09
Sigma	18.1E-09	5.5E-09	5.3E-09	6.2E-09	9.9E-09	17.5E-09	19.8E-09	21.0E-09	22.4E-09	15.2E-09	22.4E-09	19.7E-09	9.9E-09

Drift Calculation

IOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	5.8E-09	1.4E-09	1.4E-09	1.4E-09	-5.4E-09	3.0E-09	-5.4E-09	5.8E-09	-3.0E-09	1.4E-09	7.4E-09	-4.2E-09
6037	-	-2.4E-09	799.1E-12	-2.8E-09	-7.2E-09	-4.8E-09	-799.3E-12	-4.4E-09	-1.6E-09	-8.4E-09	-6.0E-09	-399.4E-12	-17.6E-09
6039	-	-24.4E-09	-45.6E-09	-51.1E-09	-61.5E-09	-79.1E-09	-78.3E-09	-86.3E-09	-83.1E-09	-75.5E-09	-87.5E-09	-75.9E-09	-69.1E-09
Average	-	-7.0E-09	-14.5E-09	-17.5E-09	-22.4E-09	-29.8E-09	-25.4E-09	-32.0E-09	-26.3E-09	-29.0E-09	-30.7E-09	-23.0E-09	-30.3E-09
Sigma	-	12.7E-09	22.0E-09	23.8E-09	27.9E-09	34.9E-09	37.5E-09	38.4E-09	40.3E-09	33.0E-09	40.3E-09	37.6E-09	28.0E-09

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

IOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	-65.9E-09	-11.4E-09	-48.8E-09	-55.1E-09	-59.9E-09	-37.0E-09	-63.9E-09	-47.2E-09	-47.6E-09	-79.9E-09	-71.1E-09	-39.5E-09	-38.4E-09
OFF PROTON samples													
6075	25.2E-09	7.2E-09	-2.4E-09	-7.6E-09	1.2E-09	-22.5E-09	-26.9E-09	-29.6E-09	-16.0E-09	-13.9E-09	-20.7E-09	-3.2E-09	4.8E-09
6076	14.4E-09	-6.0E-09	-12.0E-09	-16.8E-09	-16.0E-09	-20.8E-09	-19.6E-09	-12.0E-09	-12.0E-09	-2.4E-09	-15.2E-09	-6.0E-09	5.2E-09
6077	38.4E-09	4.4E-09	-28.4E-09	-37.6E-09	-39.6E-09	-35.6E-09	-60.3E-09	-53.9E-09	-48.0E-09	-48.0E-09	-53.1E-09	-49.6E-09	-31.2E-09
Statistics													
Min	14.4E-09	-6.0E-09	-28.4E-09	-37.6E-09	-39.6E-09	-35.6E-09	-60.3E-09	-53.9E-09	-48.0E-09	-48.0E-09	-53.1E-09	-49.6E-09	-31.2E-09
Max	38.4E-09	7.2E-09	-2.4E-09	-7.6E-09	1.2E-09	-20.8E-09	-19.6E-09	-12.0E-09	-12.0E-09	-2.4E-09	-15.2E-09	-3.2E-09	5.2E-09
Average	26.0E-09	1.9E-09	-14.3E-09	-20.6E-09	-18.1E-09	-26.3E-09	-35.6E-09	-31.8E-09	-25.3E-09	-21.4E-09	-29.7E-09	-19.6E-09	-7.1E-09
Sigma	9.8E-09	5.7E-09	10.7E-09	12.5E-09	16.7E-09	6.6E-09	17.7E-09	17.2E-09	16.1E-09	19.3E-09	16.7E-09	21.2E-09	17.0E-09

Drift Calculation

IOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-18.0E-09	-27.6E-09	-32.8E-09	-24.0E-09	-47.6E-09	-52.1E-09	-54.7E-09	-41.2E-09	-39.1E-09	-45.9E-09	-28.3E-09	-20.4E-09
6076	-	-20.4E-09	-26.4E-09	-31.2E-09	-30.4E-09	-35.2E-09	-34.0E-09	-26.4E-09	-26.4E-09	-16.8E-09	-29.6E-09	-20.4E-09	-9.2E-09
6077	-	-34.0E-09	-66.7E-09	-75.9E-09	-77.9E-09	-73.9E-09	-98.7E-09	-92.3E-09	-86.3E-09	-86.3E-09	-91.5E-09	-87.9E-09	-69.5E-09
Average	-	-24.1E-09	-40.2E-09	-46.6E-09	-44.1E-09	-52.2E-09	-61.6E-09	-57.8E-09	-51.3E-09	-47.4E-09	-55.7E-09	-45.5E-09	-33.0E-09
Sigma	-	7.0E-09	18.7E-09	20.7E-09	24.1E-09	16.2E-09	27.3E-09	27.0E-09	25.5E-09	29.0E-09	26.2E-09	30.1E-09	26.2E-09

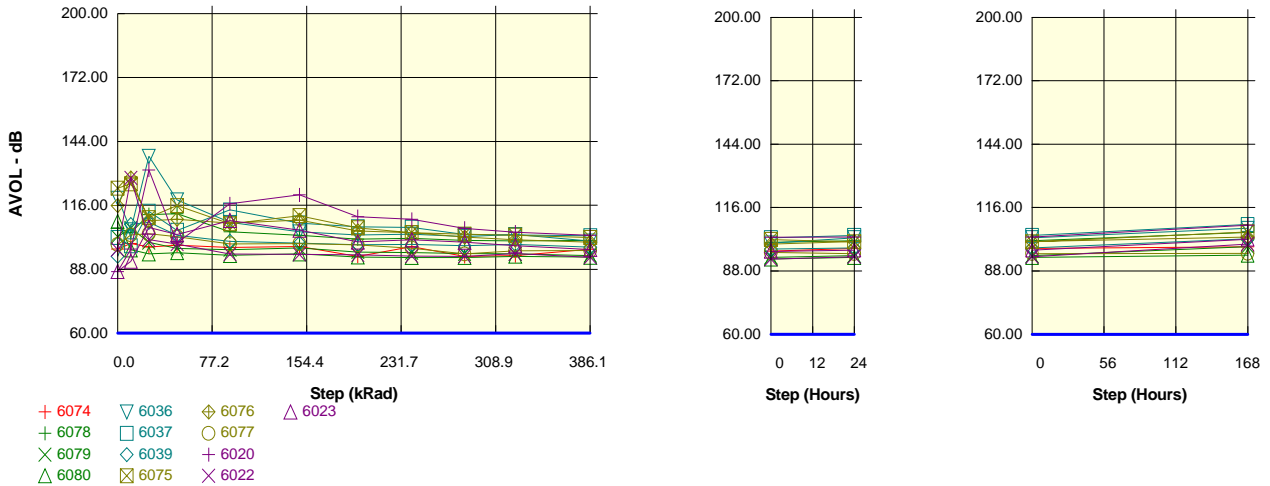
Measurements

IOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	-65.9E-09	-11.4E-09	-48.8E-09	-55.1E-09	-59.9E-09	-37.0E-09	-63.9E-09	-47.2E-09	-47.6E-09	-79.9E-09	-71.1E-09	-39.5E-09	-38.4E-09
OFF TID samples													
6020	66.7E-09	-30.0E-09	2.4E-09	-43.2E-09	-30.0E-09	-33.6E-09	-36.0E-09	-6.4E-09	-33.2E-09	-17.2E-09	-31.2E-09	-5.6E-09	-16.8E-09
6022	11.6E-09	-58.7E-09	-91.5E-09	-88.7E-09	-186.6E-09	-210.6E-09	-188.2E-09	-181.8E-09	-170.2E-09	-157.0E-09	-160.6E-09	-146.7E-09	-69.1E-09
6023	-98.8E-09	-10.7E-09	-36.4E-09	-32.6E-09	-35.9E-09	-38.7E-09	-46.4E-09	-35.6E-09	-33.2E-09	-28.0E-09	-33.6E-09	-25.2E-09	-8.8E-09
Statistics													
Min	-98.8E-09	-58.7E-09	-91.5E-09	-88.7E-09	-186.6E-09	-210.6E-09	-188.2E-09	-181.8E-09	-170.2E-09	-157.0E-09	-160.6E-09	-146.7E-09	-69.1E-09
Max	66.7E-09	-10.7E-09	2.4E-09	-32.6E-09	-30.0E-09	-33.6E-09	-36.0E-09	-6.4E-09	-33.2E-09	-17.2E-09	-31.2E-09	-5.6E-09	-8.8E-09
Average	-6.8E-09	-33.1E-09	-41.8E-09	-54.8E-09	-84.2E-09	-94.3E-09	-90.2E-09	-74.6E-09	-78.9E-09	-67.4E-09	-75.1E-09	-59.1E-09	-31.6E-09
Sigma	68.8E-09	19.8E-09	38.5E-09	24.4E-09	72.5E-09	82.3E-09	69.4E-09	76.7E-09	64.6E-09	63.5E-09	60.5E-09	62.4E-09	26.8E-09

Drift Calculation

IOS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-96.6E-09	-64.3E-09	-109.8E-09	-96.6E-09	-100.2E-09	-102.6E-09	-73.0E-09	-99.8E-09	-83.8E-09	-97.8E-09	-72.2E-09	-83.4E-09
6022	-	-70.3E-09	-103.1E-09	-100.3E-09	-198.2E-09	-222.2E-09	-199.8E-09	-193.4E-09	-181.8E-09	-168.6E-09	-172.2E-09	-158.2E-09	-80.7E-09
6023	-	88.1E-09	62.4E-09	66.2E-09	62.9E-09	60.1E-09	52.3E-09	63.2E-09	65.6E-09	70.8E-09	65.2E-09	73.6E-09	90.0E-09
Average	-	-26.3E-09	-35.0E-09	-48.0E-09	-77.3E-09	-87.4E-09	-83.4E-09	-67.8E-09	-72.0E-09	-60.6E-09	-68.3E-09	-52.3E-09	-24.7E-09
Sigma	-	81.6E-09	70.7E-09	80.8E-09	107.4E-09	115.6E-09	103.8E-09	104.8E-09	102.9E-09	99.1E-09	99.2E-09	95.7E-09	81.1E-09

Parameter : Open Loop Voltage Gain : AVOL
 Test conditions : 1V<VO<4V
 Unit : dB
 Spec Limit Min : 60.00
 Spec limits are represented in bold lines on the graphic.



Measurements

AVOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	96.84	99.34	97.77	98.52	97.51	98.05	93.70	97.86	93.65	93.99	96.76	98.05	98.72
ON PROTON samples													
6078	106.15	104.07	111.94	112.40	104.45	102.86	101.25	101.52	100.73	100.48	100.73	101.39	105.04
6079	102.29	106.08	99.78	97.17	96.60	97.34	95.57	95.30	94.84	94.78	94.05	94.78	98.82
6080	108.98	96.53	94.78	95.23	94.10	94.78	93.37	93.16	93.11	93.70	93.32	93.99	94.97
Statistics													
Min	102.29	96.53	94.78	95.23	94.10	94.78	93.37	93.16	93.11	93.70	93.32	93.99	94.97
Max	108.98	106.08	111.94	112.40	104.45	102.86	101.25	101.52	100.73	100.48	100.73	101.39	105.04
Average	105.80	102.22	102.16	101.60	98.38	98.33	96.73	96.66	96.23	96.32	96.03	96.72	99.61
Sigma	2.74	4.11	7.21	7.68	4.41	3.37	3.32	3.55	3.26	2.98	3.34	3.32	4.15

Drift Calculation

AVOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-2.1E+00	5.8E+00	6.3E+00	-1.7E+00	-3.3E+00	-4.9E+00	-4.6E+00	-5.4E+00	-5.7E+00	-5.4E+00	-4.8E+00	-1.1E+00
6079	-	3.8E+00	-2.5E+00	-5.1E+00	-5.7E+00	-4.9E+00	-6.7E+00	-7.0E+00	-7.4E+00	-7.5E+00	-8.2E+00	-7.5E+00	-3.5E+00
6080	-	-12.5E+00	-14.2E+00	-13.7E+00	-14.9E+00	-14.2E+00	-15.6E+00	-15.8E+00	-15.9E+00	-15.3E+00	-15.7E+00	-15.0E+00	-14.0E+00
Average	-	-3.6E+00	-3.6E+00	-4.2E+00	-7.4E+00	-7.5E+00	-9.1E+00	-9.1E+00	-9.6E+00	-9.5E+00	-9.8E+00	-9.1E+00	-6.2E+00
Sigma	-	6.7E+00	8.2E+00	8.2E+00	5.5E+00	4.8E+00	4.7E+00	4.8E+00	4.5E+00	4.2E+00	4.3E+00	4.3E+00	5.6E+00

Measurements

AVOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	96.84	99.34	97.77	98.52	97.51	98.05	93.70	97.86	93.65	93.99	96.76	98.05	98.72
ON TID samples													
6036	119.13	105.25	137.51	118.43	108.57	104.45	103.02	103.36	102.39	103.19	100.36	102.70	106.88
6037	101.95	98.23	113.43	105.04	113.99	108.26	106.63	106.38	103.19	103.02	102.70	103.71	108.57
6039	93.70	107.68	108.57	102.86	100.24	99.45	98.82	98.92	98.33	98.92	97.69	98.23	102.24
Statistics													
Min	93.70	98.23	108.57	102.86	100.24	99.45	98.82	98.92	98.33	98.92	97.69	98.23	102.24
Max	119.13	107.68	137.51	118.43	113.99	108.26	106.63	106.38	103.19	103.19	102.70	103.71	108.57
Average	104.93	103.72	119.83	108.78	107.60	104.05	102.82	102.89	101.30	101.71	100.25	101.55	105.90
Sigma	10.59	4.01	12.65	6.88	5.65	3.61	3.19	3.06	2.13	1.97	2.05	2.38	2.67

Drift Calculation

AVOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-13.9E+00	18.4E+00	-703.1E-03	-10.6E+00	-14.7E+00	-16.1E+00	-15.8E+00	-16.7E+00	-15.9E+00	-18.8E+00	-16.4E+00	-12.2E+00
6037	-	-3.7E+00	11.5E+00	3.1E+00	12.0E+00	6.3E+00	4.7E+00	4.4E+00	1.2E+00	1.1E+00	755.8E-03	1.8E+00	6.6E+00
6039	-	14.0E+00	14.9E+00	9.2E+00	6.5E+00	5.7E+00	5.1E+00	5.2E+00	4.6E+00	5.2E+00	4.0E+00	4.5E+00	8.5E+00
Average	-	-1.2E+00	14.9E+00	3.9E+00	2.7E+00	-874.3E-03	-2.1E+00	-2.0E+00	-3.6E+00	-3.2E+00	-4.7E+00	-3.4E+00	969.9E-03
Sigma	-	11.5E+00	2.8E+00	4.1E+00	9.6E+00	9.8E+00	9.9E+00	9.7E+00	9.4E+00	9.2E+00	10.0E+00	9.3E+00	9.4E+00

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

AVOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	96.84	99.34	97.77	98.52	97.51	98.05	93.70	97.86	93.65	93.99	96.76	98.05	98.72
OFF PROTON samples													
6075	123.53	125.47	110.66	115.93	107.97	111.49	106.15	104.07	103.36	102.96	101.95	100.92	105.25
6076	115.93	127.97	109.21	109.91	108.26	109.55	104.84	104.07	102.09	100.86	99.89	100.99	103.02
6077	98.82	103.02	103.53	102.24	99.13	99.23	98.72	97.25	94.78	96.15	96.22	95.71	95.78
Statistics													
Min	98.82	103.02	103.53	102.24	99.13	99.23	98.72	97.25	94.78	96.15	96.22	95.71	95.78
Max	123.53	127.97	110.66	115.93	108.26	111.49	106.15	104.07	103.36	102.96	101.95	100.99	105.25
Average	112.76	118.82	107.80	109.36	105.12	106.76	103.24	101.80	100.08	99.99	99.35	99.21	101.35
Sigma	10.33	11.22	3.08	5.60	4.24	5.38	3.24	3.21	3.78	2.85	2.37	2.47	4.04

Drift Calculation

AVOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	1.9E+00	-12.9E+00	-7.6E+00	-15.6E+00	-12.0E+00	-17.4E+00	-19.5E+00	-20.2E+00	-20.6E+00	-21.6E+00	-22.6E+00	-18.3E+00
6076	-	12.0E+00	-6.7E+00	-6.0E+00	-7.7E+00	-6.4E+00	-11.1E+00	-11.9E+00	-13.8E+00	-15.1E+00	-16.0E+00	-14.9E+00	-12.9E+00
6077	-	4.2E+00	4.7E+00	3.4E+00	308.5E-03	413.8E-03	-100.4E-03	-1.6E+00	-4.0E+00	-2.7E+00	-2.6E+00	-3.1E+00	-3.0E+00
Average	-	6.1E+00	-5.0E+00	-3.4E+00	-7.6E+00	-6.0E+00	-9.5E+00	-11.0E+00	-12.7E+00	-12.8E+00	-13.4E+00	-13.6E+00	-11.4E+00
Sigma	-	4.3E+00	7.3E+00	4.9E+00	6.5E+00	5.1E+00	7.1E+00	7.3E+00	6.6E+00	7.5E+00	8.0E+00	8.0E+00	6.3E+00

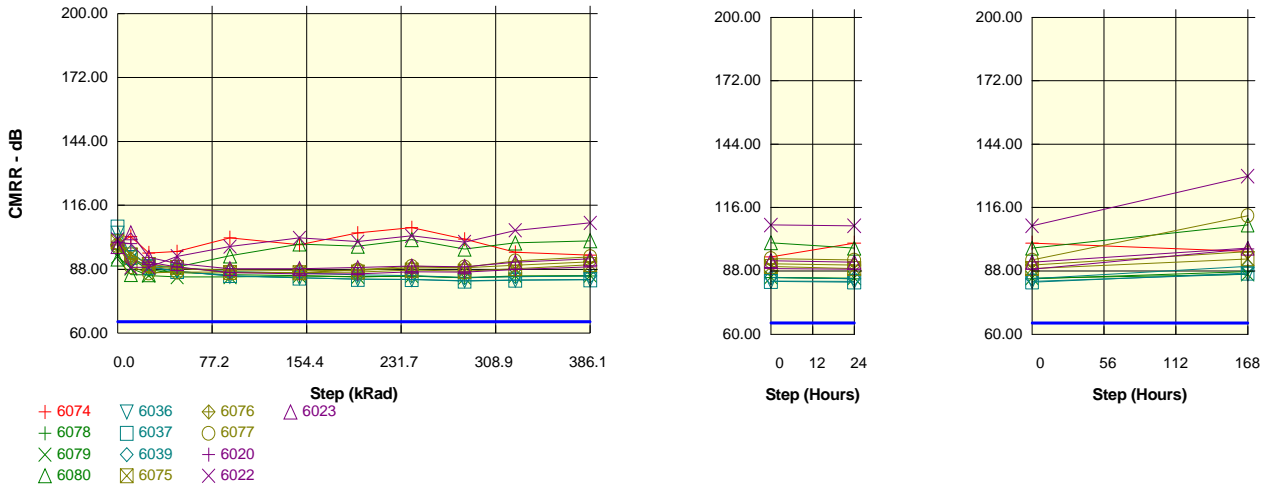
Measurements

AVOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	96.84	99.34	97.77	98.52	97.51	98.05	93.70	97.86	93.65	93.99	96.76	98.05	98.72
OFF TID samples													
6020	87.03	96.84	131.49	99.56	116.68	120.61	111.07	109.91	105.91	104.25	102.86	103.02	108.26
6022	96.76	127.97	100.99	99.02	94.65	94.53	94.28	93.82	93.70	94.84	93.27	94.34	99.89
6023	87.06	91.46	106.41	103.24	109.38	105.11	100.01	100.86	99.89	98.33	96.68	97.25	102.03
Statistics													
Min	87.03	91.46	100.99	99.02	94.65	94.53	94.28	93.82	93.70	94.84	93.27	94.34	99.89
Max	96.76	127.97	131.49	103.24	116.68	120.61	111.07	109.91	105.91	104.25	102.86	103.02	108.26
Average	90.28	105.42	112.96	100.61	106.90	106.75	101.79	101.53	99.84	99.14	97.60	98.21	103.40
Sigma	4.58	16.09	13.29	1.87	9.16	10.71	6.97	6.59	4.99	3.89	3.97	3.61	3.55

Drift Calculation

AVOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	9.8E+00	44.5E+00	12.5E+00	29.7E+00	33.6E+00	24.0E+00	22.9E+00	18.9E+00	17.2E+00	15.8E+00	16.0E+00	21.2E+00
6022	-	31.2E+00	4.2E+00	2.3E+00	-2.1E+00	-2.2E+00	-2.5E+00	-2.9E+00	-3.1E+00	-1.9E+00	-3.5E+00	-2.4E+00	3.1E+00
6023	-	4.4E+00	19.3E+00	16.2E+00	22.3E+00	18.0E+00	13.0E+00	13.8E+00	12.8E+00	11.3E+00	9.6E+00	10.2E+00	15.0E+00
Average	-	15.1E+00	22.7E+00	10.3E+00	16.6E+00	16.5E+00	11.5E+00	11.2E+00	9.6E+00	8.9E+00	7.3E+00	7.9E+00	13.1E+00
Sigma	-	11.6E+00	16.6E+00	5.9E+00	13.6E+00	14.7E+00	10.9E+00	10.7E+00	9.3E+00	8.0E+00	8.1E+00	7.7E+00	7.5E+00

Parameter : Common Mode Rejection Ratio : CMRR
 Test conditions : 1.5V<Vcm<4V
 Unit : dB
 Spec Limit Min : 65.00
 Spec limits are represented in bold lines on the graphic.



Measurements

CMRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	99.52	102.36	95.15	95.75	101.79	98.76	103.86	106.24	101.23	95.44	94.23	100.36	96.66
ON PROTON samples													
6078	96.72	92.73	87.60	86.64	85.65	85.17	84.78	84.95	84.22	84.90	85.04	84.56	87.80
6079	93.63	88.39	85.25	84.63	84.63	85.09	84.68	85.12	84.29	85.14	85.22	84.92	86.56
6080	92.45	85.70	85.58	89.04	93.85	99.02	98.08	100.96	96.84	99.54	100.51	98.08	108.32
Statistics													
Min	92.45	85.70	85.25	84.63	84.63	85.09	84.68	84.95	84.22	84.90	85.04	84.56	86.56
Max	96.72	92.73	87.60	89.04	93.85	99.02	98.08	100.96	96.84	99.54	100.51	98.08	108.32
Average	94.27	88.94	86.14	86.77	88.04	89.76	89.18	90.34	88.45	89.86	90.26	89.19	94.23
Sigma	1.80	2.90	1.04	1.80	4.13	6.55	6.30	7.51	5.94	6.84	7.25	6.29	9.98

Drift Calculation

CMRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-4.0E+00	-9.1E+00	-10.1E+00	-11.1E+00	-11.5E+00	-11.9E+00	-11.8E+00	-12.5E+00	-11.8E+00	-11.7E+00	-12.2E+00	-8.9E+00
6079	-	-5.2E+00	-8.4E+00	-9.0E+00	-9.0E+00	-8.5E+00	-9.0E+00	-8.5E+00	-9.3E+00	-8.5E+00	-8.4E+00	-8.7E+00	-7.1E+00
6080	-	-6.7E+00	-6.9E+00	-3.4E+00	1.4E+00	6.6E+00	5.6E+00	8.5E+00	4.4E+00	7.1E+00	8.1E+00	5.6E+00	15.9E+00
Average	-	-5.3E+00	-8.1E+00	-7.5E+00	-6.2E+00	-4.5E+00	-5.1E+00	-3.9E+00	-5.8E+00	-4.4E+00	-4.0E+00	-5.1E+00	-39.8E-03
Sigma	-	1.1E+00	938.9E-03	2.9E+00	5.5E+00	7.9E+00	7.7E+00	8.9E+00	7.3E+00	8.2E+00	8.6E+00	7.7E+00	11.3E+00

Measurements

CMRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	99.52	102.36	95.15	95.75	101.79	98.76	103.86	106.24	101.23	95.44	94.23	100.36	96.66
ON TID samples													
6036	103.86	92.98	89.21	87.25	84.93	84.28	83.67	83.52	82.94	83.30	83.52	83.40	86.62
6037	106.56	93.15	88.73	87.09	85.25	84.17	83.64	83.50	82.83	83.25	83.42	83.09	87.08
6039	98.78	95.50	89.52	88.77	86.98	86.35	85.56	85.25	84.38	84.80	85.04	84.68	90.13
Statistics													
Min	98.78	92.98	88.73	87.09	84.93	84.17	83.64	83.50	82.83	83.25	83.42	83.09	86.62
Max	106.56	95.50	89.52	88.77	86.98	86.35	85.56	85.25	84.38	84.80	85.04	84.68	90.13
Average	103.07	93.88	89.15	87.70	85.72	84.94	84.29	84.09	83.38	83.79	83.99	83.72	87.94
Sigma	3.23	1.15	0.33	0.76	0.90	1.00	0.90	0.82	0.70	0.72	0.74	0.69	1.55

Drift Calculation

CMRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-10.9E+00	-14.7E+00	-16.6E+00	-18.9E+00	-19.6E+00	-20.2E+00	-20.3E+00	-20.9E+00	-20.6E+00	-20.3E+00	-20.5E+00	-17.2E+00
6037	-	-13.4E+00	-17.8E+00	-19.5E+00	-21.3E+00	-22.4E+00	-22.9E+00	-23.1E+00	-23.7E+00	-23.3E+00	-23.1E+00	-23.5E+00	-19.5E+00
6039	-	-3.3E+00	-9.3E+00	-10.0E+00	-11.8E+00	-12.4E+00	-13.2E+00	-13.5E+00	-14.4E+00	-14.0E+00	-13.7E+00	-14.1E+00	-8.7E+00
Average	-	-9.2E+00	-13.9E+00	-15.4E+00	-17.3E+00	-18.1E+00	-18.8E+00	-19.0E+00	-19.7E+00	-19.3E+00	-19.1E+00	-19.3E+00	-15.1E+00
Sigma	-	4.3E+00	3.5E+00	4.0E+00	4.0E+00	4.2E+00	4.1E+00	4.0E+00	3.9E+00	3.9E+00	3.9E+00	3.9E+00	4.7E+00

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

CMRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	99.52	102.36	95.15	95.75	101.79	98.76	103.86	106.24	101.23	95.44	94.23	100.36	96.66
OFF PROTON samples													
6075	100.04	94.31	90.08	88.78	86.57	86.54	86.80	87.60	87.20	88.26	90.03	89.13	93.34
6076	98.66	92.64	89.08	88.36	87.66	87.49	87.46	88.65	88.69	89.78	91.17	90.68	96.56
6077	98.42	89.12	86.41	86.77	86.71	86.59	87.76	89.32	88.92	91.63	93.45	92.88	112.40
Statistics													
Min	98.42	89.12	86.41	86.77	86.57	86.54	86.80	87.60	87.20	88.26	90.03	89.13	93.34
Max	100.04	94.31	90.08	88.78	87.66	87.49	87.76	89.32	88.92	91.63	93.45	92.88	112.40
Average	99.04	92.02	88.52	87.97	86.98	86.87	87.34	88.52	88.27	89.89	91.55	90.90	100.77
Sigma	0.71	2.17	1.55	0.86	0.49	0.44	0.40	0.71	0.76	1.38	1.42	1.54	8.33

Drift Calculation

CMRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-5.7E+00	-10.0E+00	-11.3E+00	-13.5E+00	-13.5E+00	-13.2E+00	-12.4E+00	-12.8E+00	-11.8E+00	-10.0E+00	-10.9E+00	-6.7E+00
6076	-	-6.0E+00	-9.6E+00	-10.3E+00	-11.0E+00	-11.2E+00	-11.2E+00	-10.0E+00	-10.0E+00	-8.9E+00	-7.5E+00	-8.0E+00	-2.1E+00
6077	-	-9.3E+00	-12.0E+00	-11.7E+00	-11.7E+00	-11.8E+00	-10.7E+00	-9.1E+00	-9.5E+00	-6.8E+00	-5.0E+00	-5.5E+00	14.0E+00
Average	-	-7.0E+00	-10.5E+00	-11.1E+00	-12.1E+00	-12.2E+00	-11.7E+00	-10.5E+00	-10.8E+00	-9.2E+00	-7.5E+00	-8.1E+00	1.7E+00
Sigma	-	1.6E+00	1.1E+00	568.9E-03	1.0E+00	981.7E-03	1.1E+00	1.4E+00	1.5E+00	2.0E+00	2.1E+00	2.2E+00	8.9E+00

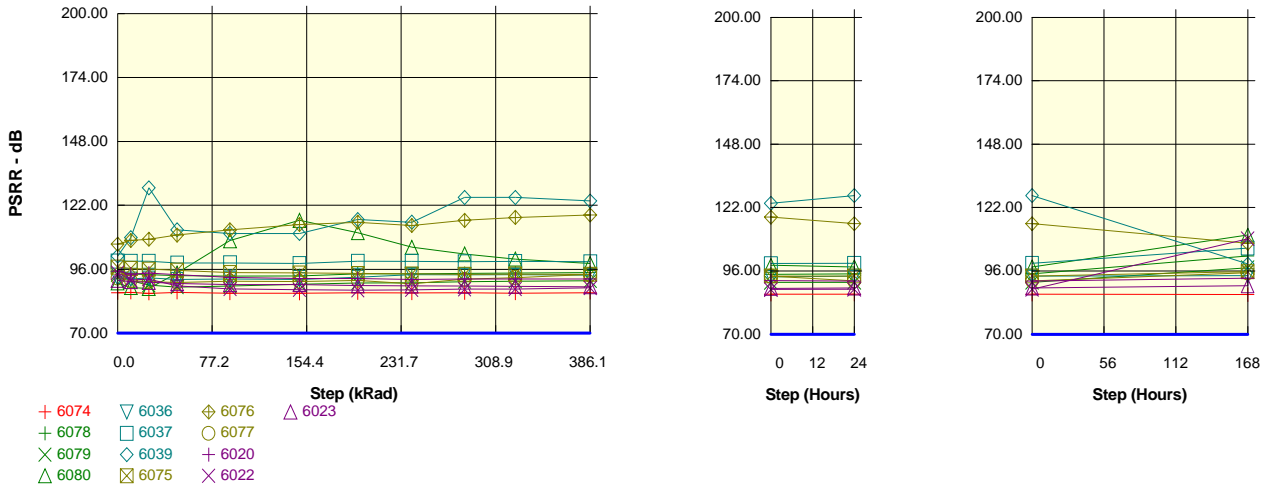
Measurements

CMRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	99.52	102.36	95.15	95.75	101.79	98.76	103.86	106.24	101.23	95.44	94.23	100.36	96.66
OFF TID samples													
6020	99.83	99.26	91.11	89.03	86.59	85.98	86.00	86.83	86.81	87.87	89.08	88.80	97.83
6022	101.06	88.83	88.85	93.71	97.97	101.77	100.08	102.67	99.94	105.04	108.32	107.97	129.91
6023	97.93	103.93	93.19	90.49	88.22	88.25	88.73	89.39	89.15	91.15	92.60	91.90	98.07
Statistics													
Min	97.93	88.83	88.85	89.03	86.59	85.98	86.00	86.83	86.81	87.87	89.08	88.80	97.83
Max	101.06	103.93	93.19	93.71	97.97	101.77	100.08	102.67	99.94	105.04	108.32	107.97	129.91
Average	99.61	97.34	91.05	91.08	90.93	92.00	91.60	92.96	91.97	94.69	96.67	96.22	108.60
Sigma	1.29	6.31	1.77	1.96	5.03	6.97	6.10	6.94	5.72	7.45	8.37	8.40	15.06

Drift Calculation

CMRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-566.5E-03	-8.7E+00	-10.8E+00	-13.2E+00	-13.8E+00	-13.8E+00	-13.0E+00	-13.0E+00	-12.0E+00	-10.7E+00	-11.0E+00	-2.0E+00
6022	-	-12.2E+00	-12.2E+00	-7.3E+00	-3.1E+00	718.8E-03	-977.7E-03	1.6E+00	-1.1E+00	4.0E+00	7.3E+00	6.9E+00	28.9E+00
6023	-	6.0E+00	-4.7E+00	-7.4E+00	-9.7E+00	-9.7E+00	-9.2E+00	-8.5E+00	-8.8E+00	-6.8E+00	-5.3E+00	-6.0E+00	143.4E-03
Average	-	-2.3E+00	-8.6E+00	-8.5E+00	-8.7E+00	-7.6E+00	-8.0E+00	-6.6E+00	-7.6E+00	-4.9E+00	-2.9E+00	-3.4E+00	9.0E+00
Sigma	-	7.5E+00	3.1E+00	1.6E+00	4.2E+00	6.1E+00	5.3E+00	6.1E+00	4.9E+00	6.6E+00	7.5E+00	7.6E+00	14.1E+00

Parameter : Power Supply Rejection Ratio : PSRR
 Test conditions : 12V<VS<20V
 Unit : dB
 Spec Limit Min : 70.00
 Spec limits are represented in bold lines on the graphic.



Measurements

PSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	86.45	86.59	86.18	86.60	86.29	86.23	86.44	86.35	86.45	86.28	86.48	86.52	86.32
ON PROTON samples													
6078	95.35	94.12	93.86	93.36	93.18	93.30	94.10	94.12	94.32	94.46	94.67	94.81	102.22
6079	93.75	91.35	89.56	88.77	89.15	89.91	90.41	90.47	90.93	91.14	91.32	91.35	97.37
6080	90.45	88.55	88.19	94.41	107.65	115.93	110.91	104.97	102.22	100.14	98.32	97.66	110.76
Statistics													
Min	90.45	88.55	88.19	88.77	89.15	89.91	90.41	90.47	90.93	91.14	91.32	91.35	97.37
Max	95.35	94.12	93.86	94.41	107.65	115.93	110.91	104.97	102.22	100.14	98.32	97.66	110.76
Average	93.18	91.34	90.54	92.18	96.66	99.71	98.47	96.52	95.82	95.25	94.77	94.61	103.45
Sigma	2.04	2.27	2.42	2.45	7.94	11.55	8.92	6.16	4.73	3.72	2.86	2.58	5.54

Drift Calculation

PSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-1.2E+00	-1.5E+00	-2.0E+00	-2.2E+00	-2.0E+00	-1.3E+00	-1.2E+00	-1.0E+00	-892.3E-03	-683.5E-03	-541.5E-03	6.9E+00
6079	-	-2.4E+00	-4.2E+00	-5.0E+00	-4.6E+00	-3.8E+00	-3.3E+00	-3.3E+00	-2.8E+00	-2.6E+00	-2.4E+00	-2.4E+00	3.6E+00
6080	-	-1.9E+00	-2.3E+00	4.0E+00	17.2E+00	25.5E+00	20.5E+00	14.5E+00	11.8E+00	9.7E+00	7.9E+00	7.2E+00	20.3E+00
Average	-	-1.8E+00	-2.6E+00	-1.0E+00	3.5E+00	6.5E+00	5.3E+00	3.3E+00	2.6E+00	2.1E+00	1.6E+00	1.4E+00	10.3E+00
Sigma	-	480.8E-03	1.1E+00	3.7E+00	9.8E+00	13.4E+00	10.8E+00	8.0E+00	6.5E+00	5.4E+00	4.5E+00	4.2E+00	7.2E+00

Measurements

PSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	86.45	86.59	86.18	86.60	86.29	86.23	86.44	86.35	86.45	86.28	86.48	86.52	86.32
ON TID samples													
6036	92.23	92.02	92.42	91.89	92.10	91.81	92.76	93.86	93.75	93.79	93.56	93.90	94.12
6037	99.38	99.26	99.26	98.53	98.57	98.35	99.26	99.22	99.06	99.18	99.06	99.14	105.44
6039	101.37	108.88	129.13	112.05	110.61	110.61	116.20	115.15	125.20	125.20	123.75	126.95	98.87
Statistics													
Min	92.23	92.02	92.42	91.89	92.10	91.81	92.76	93.86	93.75	93.79	93.56	93.90	94.12
Max	101.37	108.88	129.13	112.05	110.61	110.61	116.20	115.15	125.20	125.20	123.75	126.95	105.44
Average	97.66	100.05	106.94	100.83	100.43	100.26	102.74	102.74	106.01	106.06	105.46	106.66	99.48
Sigma	3.93	6.91	15.94	8.39	7.67	7.79	9.88	9.04	13.75	13.71	13.13	14.50	4.64

Drift Calculation

PSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-210.2E-03	197.2E-03	-330.4E-03	-123.2E-03	-415.3E-03	529.9E-03	1.6E+00	1.5E+00	1.6E+00	1.3E+00	1.7E+00	1.9E+00
6037	-	-120.4E-03	-120.4E-03	-846.2E-03	-809.5E-03	-1.0E+00	-120.4E-03	-160.1E-03	-317.3E-03	-199.7E-03	-317.3E-03	-239.1E-03	6.1E+00
6039	-	7.5E+00	27.8E+00	10.7E+00	9.2E+00	9.2E+00	14.8E+00	13.8E+00	23.8E+00	23.8E+00	22.4E+00	25.6E+00	-2.5E+00
Average	-	2.4E+00	9.3E+00	3.2E+00	2.8E+00	2.6E+00	5.1E+00	5.1E+00	8.3E+00	8.4E+00	7.8E+00	9.0E+00	1.8E+00
Sigma	-	3.6E+00	13.1E+00	5.3E+00	4.6E+00	4.7E+00	6.9E+00	6.2E+00	11.0E+00	10.9E+00	10.3E+00	11.7E+00	3.5E+00

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

PSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	86.45	86.59	86.18	86.60	86.29	86.23	86.44	86.35	86.45	86.28	86.48	86.52	86.32
OFF PROTON samples													
6075	96.90	96.31	96.06	95.61	94.69	94.53	94.30	94.12	93.97	94.05	93.92	93.94	95.76
6076	106.20	107.75	108.19	109.91	112.05	114.21	115.15	113.77	115.93	117.09	118.07	115.40	107.34
6077	92.40	91.35	91.00	90.63	91.13	91.07	91.46	90.04	91.93	92.62	93.90	91.95	95.22
Statistics													
Min	92.40	91.35	91.00	90.63	91.13	91.07	91.46	90.04	91.93	92.62	93.90	91.95	95.22
Max	106.20	107.75	108.19	109.91	112.05	114.21	115.15	113.77	115.93	117.09	118.07	115.40	107.34
Average	98.50	98.47	98.42	98.71	99.29	99.93	100.30	99.31	100.61	101.25	101.97	100.43	99.44
Sigma	5.75	6.87	7.21	8.17	9.14	10.19	10.56	10.36	10.86	11.21	11.39	10.62	5.59

Drift Calculation

PSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-587.1E-03	-838.9E-03	-1.3E+00	-2.2E+00	-2.4E+00	-2.6E+00	-2.8E+00	-2.9E+00	-2.8E+00	-3.0E+00	-3.0E+00	-1.1E+00
6076	-	1.5E+00	2.0E+00	3.7E+00	5.8E+00	8.0E+00	8.9E+00	7.6E+00	9.7E+00	10.9E+00	11.9E+00	9.2E+00	1.1E+00
6077	-	-1.1E+00	-1.4E+00	-1.8E+00	-1.3E+00	-1.3E+00	-942.3E-03	-2.4E+00	-475.3E-03	219.9E-03	1.5E+00	-458.2E-03	2.8E+00
Average	-	-31.4E-03	-85.7E-03	209.3E-03	785.1E-03	1.4E+00	1.8E+00	808.0E-03	2.1E+00	2.8E+00	3.5E+00	1.9E+00	938.6E-03
Sigma	-	1.1E+00	1.5E+00	2.5E+00	3.6E+00	4.7E+00	5.1E+00	4.8E+00	5.5E+00	5.9E+00	6.2E+00	5.2E+00	1.6E+00

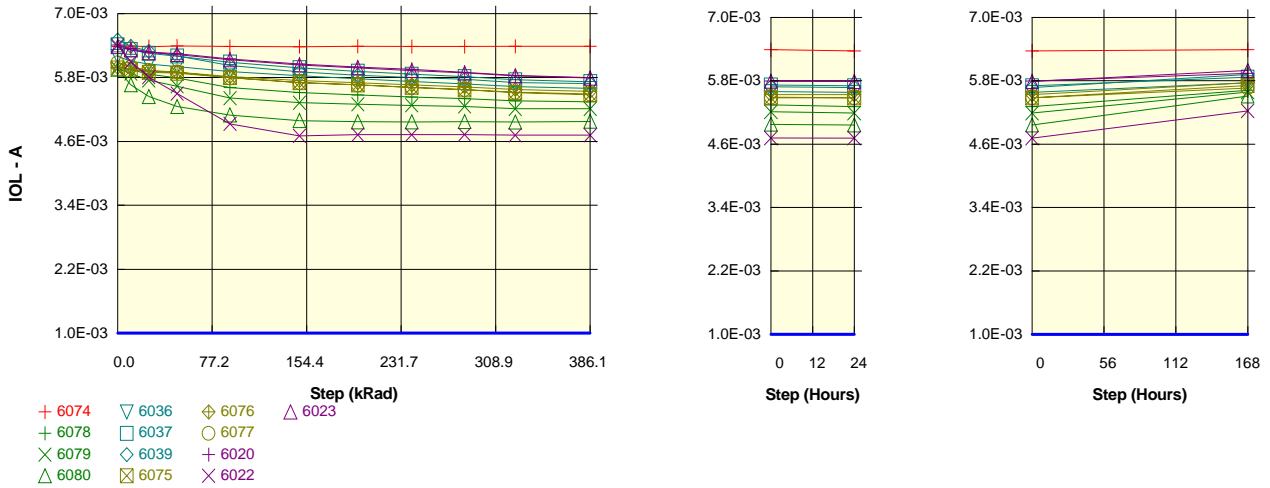
Measurements

PSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	86.45	86.59	86.18	86.60	86.29	86.23	86.44	86.35	86.45	86.28	86.48	86.52	86.32
OFF TID samples													
6020	95.25	94.03	94.39	93.86	92.70	92.31	92.24	91.89	92.07	92.02	92.02	91.81	93.04
6022	94.60	91.61	91.96	89.29	87.98	87.68	87.49	87.62	87.90	87.93	88.39	88.50	109.25
6023	91.51	90.96	90.69	90.18	89.77	89.78	89.33	89.24	89.14	89.08	88.86	89.02	89.97
Statistics													
Min	91.51	90.96	90.69	89.29	87.98	87.68	87.49	87.62	87.90	87.93	88.39	88.50	89.97
Max	95.25	94.03	94.39	93.86	92.70	92.31	92.24	91.89	92.07	92.02	92.02	91.81	109.25
Average	93.78	92.20	92.35	91.11	90.15	89.93	89.69	89.58	89.70	89.68	89.75	89.78	97.42
Sigma	1.63	1.32	1.54	1.98	1.95	1.89	1.96	1.76	1.75	1.72	1.61	1.45	8.46

Drift Calculation

PSRR	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-1.2E+00	-859.7E-03	-1.4E+00	-2.5E+00	-2.9E+00	-3.0E+00	-3.4E+00	-3.2E+00	-3.2E+00	-3.2E+00	-3.4E+00	-2.2E+00
6022	-	-3.0E+00	-2.6E+00	-5.3E+00	-6.6E+00	-6.9E+00	-7.1E+00	-7.0E+00	-6.7E+00	-6.7E+00	-6.2E+00	-6.1E+00	14.7E+00
6023	-	-553.4E-03	-824.9E-03	-1.3E+00	-1.7E+00	-1.7E+00	-2.2E+00	-2.3E+00	-2.4E+00	-2.4E+00	-2.7E+00	-2.5E+00	-1.5E+00
Average	-	-1.6E+00	-1.4E+00	-2.7E+00	-3.6E+00	-3.9E+00	-4.1E+00	-4.2E+00	-4.1E+00	-4.1E+00	-4.0E+00	-4.0E+00	3.6E+00
Sigma	-	1.0E+00	843.6E-03	1.9E+00	2.1E+00	2.2E+00	2.2E+00	2.0E+00	1.9E+00	1.8E+00	1.6E+00	1.5E+00	7.8E+00

Parameter : Output Sink Current : IOL
 Test conditions : VE/Aout=1V
 Unit : A
 Spec Limit Min : 1.0E-03
 Spec limits are represented in bold lines on the graphic.



Measurements

IOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03
ON_PROTON samples													
6078	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.6E-03	5.5E-03	5.5E-03	5.4E-03	5.4E-03	5.4E-03	5.3E-03	5.3E-03	5.6E-03
6079	6.0E-03	5.9E-03	5.7E-03	5.6E-03	5.4E-03	5.3E-03	5.3E-03	5.3E-03	5.3E-03	5.2E-03	5.2E-03	5.2E-03	5.6E-03
6080	6.0E-03	5.7E-03	5.4E-03	5.3E-03	5.1E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.5E-03
Statistics													
Min	6.0E-03	5.7E-03	5.4E-03	5.3E-03	5.1E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.5E-03
Max	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.6E-03	5.5E-03	5.5E-03	5.4E-03	5.4E-03	5.4E-03	5.3E-03	5.3E-03	5.6E-03
Average	6.0E-03	5.8E-03	5.7E-03	5.6E-03	5.4E-03	5.3E-03	5.2E-03	5.2E-03	5.2E-03	5.2E-03	5.2E-03	5.2E-03	5.6E-03
Sigma	15.3E-06	119.7E-06	178.3E-06	225.7E-06	211.3E-06	218.0E-06	209.2E-06	193.9E-06	179.5E-06	163.2E-06	150.9E-06	143.4E-06	45.2E-06

Drift Calculation

IOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	-44.2E-06	-127.0E-06	-198.4E-06	-382.6E-06	-474.2E-06	-517.8E-06	-558.0E-06	-586.6E-06	-631.0E-06	-651.2E-06	-683.0E-06	-373.4E-06
6079	-	-96.4E-06	-222.8E-06	-335.6E-06	-557.0E-06	-643.2E-06	-670.6E-06	-693.4E-06	-711.0E-06	-757.0E-06	-758.0E-06	-781.8E-06	-382.0E-06
6080	-	-289.4E-06	-512.6E-06	-699.0E-06	-858.0E-06	-964.0E-06	-984.8E-06	-987.2E-06	-981.4E-06	-989.0E-06	-978.2E-06	-991.6E-06	-443.4E-06
Average	-	-143.3E-06	-287.5E-06	-411.0E-06	-599.2E-06	-693.8E-06	-724.4E-06	-746.2E-06	-759.7E-06	-792.3E-06	-795.8E-06	-818.8E-06	-399.6E-06
Sigma	-	105.5E-06	163.9E-06	211.2E-06	196.4E-06	203.1E-06	194.4E-06	179.2E-06	164.8E-06	148.3E-06	136.1E-06	128.7E-06	31.2E-06

Measurements

IOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03
ON_TID samples													
6036	6.2E-03	6.1E-03	6.1E-03	6.0E-03	5.9E-03	5.8E-03	5.8E-03	5.7E-03	5.7E-03	5.6E-03	5.6E-03	5.6E-03	5.8E-03
6037	6.4E-03	6.3E-03	6.3E-03	6.2E-03	6.1E-03	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.8E-03	5.7E-03	5.7E-03	5.9E-03
6039	6.5E-03	6.4E-03	6.3E-03	6.2E-03	6.0E-03	5.9E-03	5.8E-03	5.8E-03	5.8E-03	5.7E-03	5.7E-03	5.7E-03	5.9E-03
Statistics													
Min	6.2E-03	6.1E-03	6.1E-03	6.0E-03	5.9E-03	5.8E-03	5.8E-03	5.7E-03	5.7E-03	5.6E-03	5.6E-03	5.6E-03	5.8E-03
Max	6.5E-03	6.4E-03	6.3E-03	6.2E-03	6.1E-03	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.8E-03	5.7E-03	5.7E-03	5.9E-03
Average	6.4E-03	6.3E-03	6.2E-03	6.1E-03	6.0E-03	5.9E-03	5.8E-03	5.8E-03	5.8E-03	5.7E-03	5.7E-03	5.7E-03	5.9E-03
Sigma	129.9E-06	120.5E-06	104.1E-06	92.9E-06	73.1E-06	61.1E-06	57.8E-06	56.8E-06	55.4E-06	51.8E-06	53.3E-06	52.3E-06	64.2E-06

Drift Calculation

IOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	-91.4E-06	-142.4E-06	-189.0E-06	-284.0E-06	-363.0E-06	-420.2E-06	-473.8E-06	-514.2E-06	-566.0E-06	-602.0E-06	-613.8E-06	-432.2E-06
6037	-	-90.8E-06	-159.0E-06	-211.4E-06	-324.2E-06	-430.6E-06	-495.8E-06	-552.2E-06	-597.0E-06	-657.2E-06	-692.6E-06	-706.4E-06	-544.6E-06
6039	-	-120.0E-06	-215.8E-06	-299.8E-06	-482.4E-06	-601.8E-06	-660.4E-06	-705.0E-06	-740.4E-06	-800.0E-06	-821.0E-06	-835.4E-06	-588.2E-06
Average	-	-100.7E-06	-172.4E-06	-233.4E-06	-363.5E-06	-465.1E-06	-525.5E-06	-577.0E-06	-617.2E-06	-674.4E-06	-705.2E-06	-718.5E-06	-521.7E-06
Sigma	-	13.6E-06	31.4E-06	47.8E-06	85.6E-06	100.5E-06	100.3E-06	96.0E-06	93.4E-06	96.3E-06	89.8E-06	90.9E-06	65.7E-06

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

IOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03
OFF-PROTON samples													
6075	6.0E-03	5.9E-03	5.9E-03	5.9E-03	5.8E-03	5.7E-03	5.7E-03	5.6E-03	5.6E-03	5.5E-03	5.5E-03	5.5E-03	5.7E-03
6076	6.0E-03	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.7E-03	5.7E-03	5.7E-03	5.6E-03	5.6E-03	5.5E-03	5.5E-03	5.8E-03
6077	6.1E-03	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.7E-03	5.7E-03	5.6E-03	5.6E-03	5.5E-03	5.5E-03	5.5E-03	5.7E-03
Statistics													
Min	6.0E-03	5.9E-03	5.9E-03	5.9E-03	5.8E-03	5.7E-03	5.7E-03	5.6E-03	5.6E-03	5.5E-03	5.5E-03	5.5E-03	5.7E-03
Max	6.1E-03	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.7E-03	5.7E-03	5.7E-03	5.6E-03	5.6E-03	5.5E-03	5.5E-03	5.8E-03
Average	6.0E-03	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.7E-03	5.7E-03	5.6E-03	5.6E-03	5.5E-03	5.5E-03	5.5E-03	5.7E-03
Sigma	42.6E-06	22.8E-06	13.0E-06	9.8E-06	10.1E-06	17.8E-06	19.6E-06	21.2E-06	25.1E-06	27.9E-06	27.0E-06	28.6E-06	41.2E-06

Drift Calculation

IOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	-30.6E-06	-76.4E-06	-97.6E-06	-180.6E-06	-273.6E-06	-315.4E-06	-362.0E-06	-407.4E-06	-461.8E-06	-499.8E-06	-502.2E-06	-265.0E-06
6076	-	-29.8E-06	-70.4E-06	-93.8E-06	-175.0E-06	-250.2E-06	-290.0E-06	-331.8E-06	-368.0E-06	-414.4E-06	-453.2E-06	-455.6E-06	-229.8E-06
6077	-	-73.2E-06	-142.2E-06	-172.6E-06	-278.6E-06	-368.4E-06	-413.8E-06	-457.8E-06	-501.0E-06	-550.6E-06	-585.6E-06	-596.6E-06	-412.4E-06
Average	-	-44.5E-06	-96.3E-06	-121.3E-06	-211.4E-06	-297.4E-06	-339.7E-06	-383.9E-06	-425.5E-06	-475.6E-06	-512.9E-06	-518.1E-06	-302.4E-06
Sigma	-	20.3E-06	32.5E-06	36.3E-06	47.6E-06	51.1E-06	53.4E-06	53.7E-06	55.8E-06	56.5E-06	54.8E-06	58.7E-06	79.1E-06

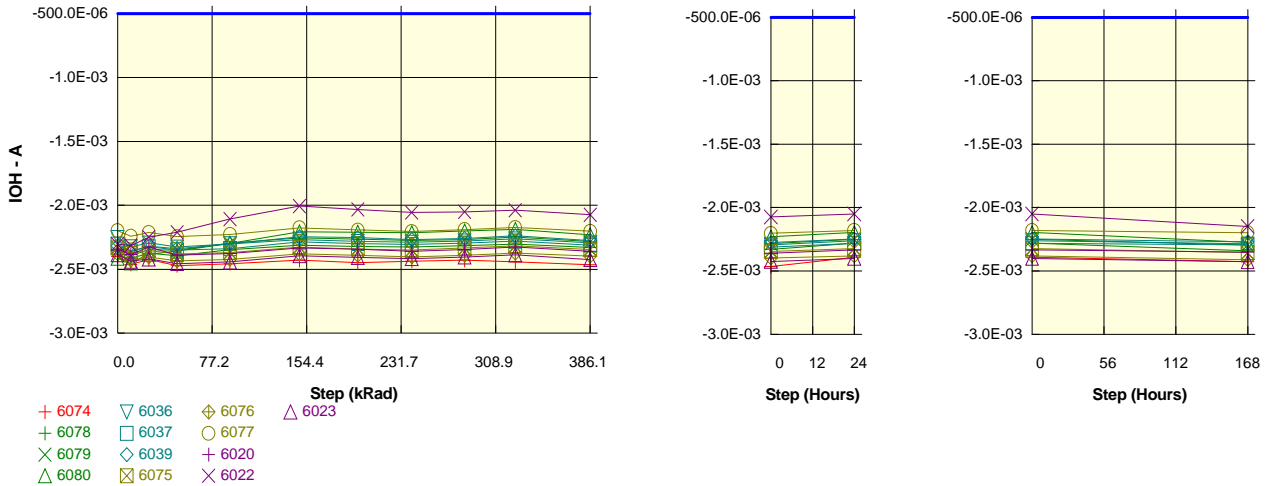
Measurements

IOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03	6.4E-03
OFF-TID samples													
6020	6.4E-03	6.3E-03	6.3E-03	6.3E-03	6.2E-03	6.1E-03	6.0E-03	6.0E-03	5.9E-03	5.8E-03	5.8E-03	5.8E-03	5.9E-03
6022	6.4E-03	6.1E-03	5.8E-03	5.5E-03	4.9E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	5.2E-03
6023	6.4E-03	6.3E-03	6.3E-03	6.2E-03	6.1E-03	6.0E-03	6.0E-03	5.9E-03	5.9E-03	5.8E-03	5.8E-03	5.8E-03	6.0E-03
Statistics													
Min	6.4E-03	6.1E-03	5.8E-03	5.5E-03	4.9E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	5.2E-03
Max	6.4E-03	6.3E-03	6.3E-03	6.3E-03	6.2E-03	6.1E-03	6.0E-03	6.0E-03	5.9E-03	5.8E-03	5.8E-03	5.8E-03	6.0E-03
Average	6.4E-03	6.3E-03	6.1E-03	6.0E-03	5.7E-03	5.6E-03	5.6E-03	5.5E-03	5.5E-03	5.5E-03	5.4E-03	5.4E-03	5.7E-03
Sigma	13.3E-06	111.3E-06	220.2E-06	349.8E-06	571.4E-06	632.6E-06	596.3E-06	573.7E-06	547.7E-06	527.6E-06	508.0E-06	507.6E-06	348.9E-06

Drift Calculation

IOL	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	-67.4E-06	-131.6E-06	-160.2E-06	-261.2E-06	-356.4E-06	-413.8E-06	-457.2E-06	-513.8E-06	-571.4E-06	-615.6E-06	-616.2E-06	-472.6E-06
6022	-	-306.4E-06	-594.8E-06	-902.4E-06	-1.5E-03	-1.7E-03	-1.7E-03	-1.7E-03	-1.7E-03	-1.7E-03	-1.7E-03	-1.7E-03	-1.2E-03
6023	-	-62.4E-06	-111.0E-06	-148.0E-06	-246.2E-06	-343.0E-06	-396.0E-06	-449.2E-06	-494.0E-06	-547.4E-06	-588.2E-06	-593.8E-06	-383.0E-06
Average	-	-145.4E-06	-279.1E-06	-403.5E-06	-659.9E-06	-799.1E-06	-828.7E-06	-861.0E-06	-893.3E-06	-934.6E-06	-963.3E-06	-966.1E-06	-676.1E-06
Sigma	-	113.9E-06	223.4E-06	352.8E-06	574.4E-06	635.6E-06	599.3E-06	576.7E-06	550.8E-06	530.7E-06	511.2E-06	510.7E-06	353.1E-06

Parameter : Output Source Current : IOH
 Test conditions : VE/Aout=4V
 Unit : A
 Spec Limit Max : -500.0E-06
 Spec limits are represented in bold lines on the graphic.



Measurements

IOH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-2.4E-03	-2.5E-03	-2.4E-03	-2.5E-03	-2.5E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.5E-03	-2.4E-03	-2.4E-03
ON PROTON samples													
6078	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03
6079	-2.3E-03	-2.4E-03	-2.3E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.2E-03	-2.3E-03	-2.2E-03	-2.3E-03
6080	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.3E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.3E-03
Statistics													
Min	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03
Max	-2.3E-03	-2.4E-03	-2.3E-03	-2.4E-03	-2.3E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.3E-03
Average	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.2E-03	-2.2E-03	-2.3E-03
Sigma	35.0E-06	23.1E-06	15.5E-06	18.7E-06	23.9E-06	42.8E-06	45.2E-06	45.0E-06	47.2E-06	47.3E-06	40.7E-06	34.2E-06	28.3E-06

Drift Calculation

IOH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-62.4E-06	-22.6E-06	-41.2E-06	5.8E-06	41.6E-06	31.4E-06	28.4E-06	37.2E-06	48.4E-06	23.0E-06	73.6E-06	10.8E-06
6079	-	-60.6E-06	-14.6E-06	-19.8E-06	36.2E-06	78.4E-06	67.8E-06	58.4E-06	65.0E-06	85.0E-06	47.8E-06	82.4E-06	37.0E-06
6080	-	-34.4E-06	31.8E-06	57.4E-06	118.0E-06	208.2E-06	204.0E-06	200.4E-06	214.2E-06	226.0E-06	184.4E-06	218.0E-06	140.2E-06
Average	-	-52.5E-06	-1.8E-06	-1.2E-06	53.3E-06	109.4E-06	101.1E-06	95.7E-06	105.5E-06	119.8E-06	85.1E-06	124.7E-06	62.7E-06
Sigma	-	12.8E-06	24.0E-06	42.3E-06	47.4E-06	71.5E-06	74.3E-06	75.0E-06	77.7E-06	76.6E-06	71.0E-06	66.1E-06	55.9E-06

Measurements

IOH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-2.4E-03	-2.5E-03	-2.4E-03	-2.5E-03	-2.5E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.5E-03	-2.4E-03	-2.4E-03
ON TID samples													
6036	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03
6037	-2.3E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03
6039	-2.3E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.2E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.2E-03	-2.3E-03	-2.2E-03	-2.3E-03
Statistics													
Min	-2.3E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03
Max	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.2E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.2E-03	-2.3E-03	-2.2E-03	-2.3E-03
Average	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03
Sigma	28.2E-06	16.0E-06	13.1E-06	9.5E-06	17.4E-06	16.5E-06	19.1E-06	15.9E-06	15.0E-06	17.1E-06	13.9E-06	13.7E-06	10.2E-06

Drift Calculation

IOH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-73.4E-06	-42.6E-06	-74.2E-06	-49.8E-06	-17.2E-06	-31.0E-06	-36.4E-06	-27.6E-06	-11.2E-06	-42.4E-06	-9.6E-06	-34.2E-06
6037	-	-55.4E-06	-21.2E-06	-46.0E-06	-35.6E-06	17.2E-06	4.2E-06	-3.4E-06	7.2E-06	22.8E-06	-7.6E-06	21.4E-06	9.6E-06
6039	-	-42.2E-06	-1.6E-06	-21.8E-06	15.4E-06	71.8E-06	64.8E-06	50.0E-06	58.2E-06	78.8E-06	40.8E-06	69.2E-06	48.4E-06
Average	-	-57.0E-06	-21.8E-06	-47.3E-06	-23.3E-06	23.9E-06	12.7E-06	3.4E-06	12.6E-06	30.1E-06	-3.1E-06	27.0E-06	7.9E-06
Sigma	-	12.8E-06	16.7E-06	21.4E-06	28.0E-06	36.6E-06	39.6E-06	35.6E-06	35.2E-06	37.1E-06	34.1E-06	32.4E-06	33.7E-06

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

IOH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-2.4E-03	-2.5E-03	-2.4E-03	-2.5E-03	-2.5E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.5E-03	-2.4E-03	-2.4E-03
OFF PROTON samples													
6075	-2.3E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.4E-03
6076	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03
6077	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03
Statistics													
Min	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03
Max	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.2E-03
Average	-2.3E-03	-2.3E-03	-2.3E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.3E-03
Sigma	76.6E-06	79.1E-06	81.6E-06	80.0E-06	82.4E-06	86.3E-06	84.1E-06	83.5E-06	84.5E-06	84.6E-06	82.0E-06	84.5E-06	90.1E-06

Drift Calculation

IOH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-44.2E-06	-22.4E-06	-49.2E-06	-38.6E-06	3.4E-06	-9.0E-06	-18.0E-06	-2.6E-06	13.2E-06	-14.6E-06	8.2E-06	-24.4E-06
6076	-	-50.6E-06	-26.6E-06	-55.6E-06	-44.2E-06	-600.0E-09	-12.0E-06	-24.0E-06	-12.4E-06	4.8E-06	-18.0E-06	-2.2E-06	-32.0E-06
6077	-	-43.4E-06	-14.6E-06	-46.4E-06	-30.0E-06	21.8E-06	5.2E-06	-7.2E-06	7.6E-06	24.6E-06	-5.2E-06	17.8E-06	-400.0E-09
Average	-	-46.1E-06	-21.2E-06	-50.4E-06	-37.6E-06	8.2E-06	-5.3E-06	-16.4E-06	-2.5E-06	14.2E-06	-12.6E-06	7.9E-06	-18.9E-06
Sigma	-	3.2E-06	5.0E-06	3.9E-06	5.8E-06	9.8E-06	7.5E-06	7.0E-06	8.2E-06	8.1E-06	5.4E-06	8.2E-06	13.5E-06

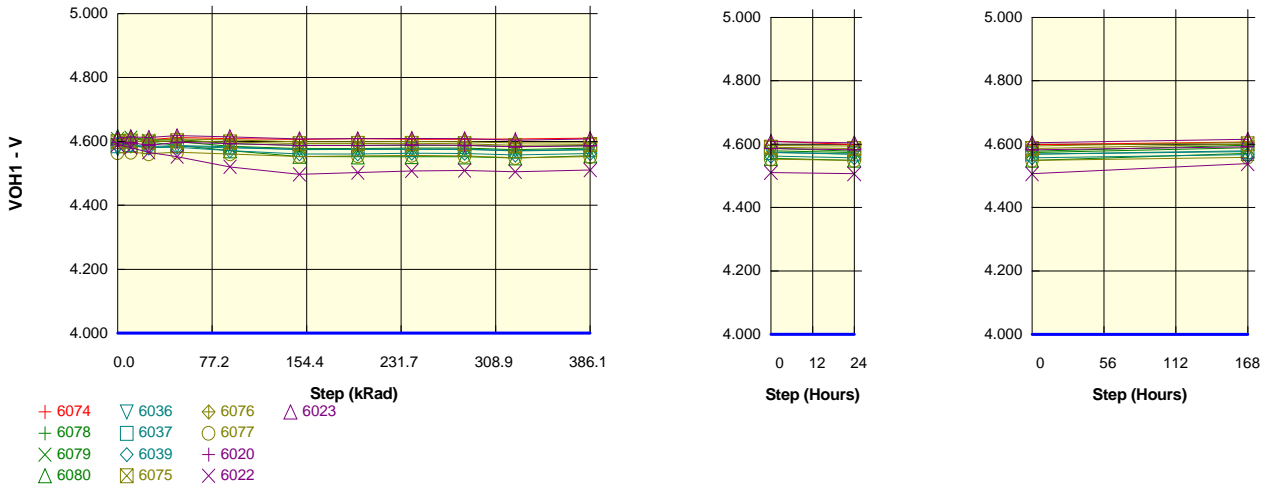
Measurements

IOH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-2.4E-03	-2.5E-03	-2.4E-03	-2.5E-03	-2.5E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.5E-03	-2.4E-03	-2.4E-03
OFF TID samples													
6020	-2.3E-03	-2.4E-03	-2.3E-03	-2.4E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.4E-03	-2.3E-03	-2.3E-03	-2.4E-03	-2.3E-03	-2.4E-03
6022	-2.3E-03	-2.3E-03	-2.2E-03	-2.2E-03	-2.1E-03	-2.0E-03	-2.0E-03	-2.1E-03	-2.1E-03	-2.0E-03	-2.1E-03	-2.1E-03	-2.1E-03
6023	-2.4E-03	-2.4E-03	-2.4E-03	-2.5E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03
Statistics													
Min	-2.4E-03	-2.4E-03	-2.4E-03	-2.5E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03	-2.4E-03
Max	-2.3E-03	-2.3E-03	-2.2E-03	-2.2E-03	-2.1E-03	-2.0E-03	-2.0E-03	-2.1E-03	-2.1E-03	-2.0E-03	-2.1E-03	-2.1E-03	-2.1E-03
Average	-2.3E-03	-2.4E-03	-2.3E-03	-2.4E-03	-2.3E-03	-2.2E-03	-2.3E-03	-2.3E-03	-2.3E-03	-2.2E-03	-2.3E-03	-2.3E-03	-2.3E-03
Sigma	33.2E-06	50.1E-06	69.2E-06	103.7E-06	145.2E-06	170.9E-06	163.7E-06	158.5E-06	154.5E-06	152.1E-06	152.5E-06	151.3E-06	117.8E-06

Drift Calculation

IOH	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-40.6E-06	18.6E-06	-45.2E-06	-32.2E-06	10.4E-06	200.0E-09	-15.6E-06	-400.0E-09	18.2E-06	-15.6E-06	11.6E-06	-8.0E-06
6022	-	-11.0E-06	54.6E-06	93.8E-06	196.8E-06	298.6E-06	271.8E-06	248.8E-06	253.4E-06	266.6E-06	230.8E-06	253.4E-06	156.6E-06
6023	-	-52.0E-06	-33.2E-06	-70.4E-06	-57.8E-06	-9.2E-06	-21.4E-06	-30.8E-06	-18.8E-06	-600.0E-09	-38.8E-06	-14.8E-06	-40.6E-06
Average	-	-34.5E-06	13.3E-06	-7.3E-06	35.6E-06	99.9E-06	83.5E-06	67.5E-06	78.1E-06	94.7E-06	58.8E-06	83.4E-06	36.0E-06
Sigma	-	17.3E-06	36.0E-06	72.2E-06	114.5E-06	140.7E-06	133.4E-06	128.4E-06	124.2E-06	121.8E-06	122.0E-06	120.7E-06	86.3E-06

Parameter : High Output Voltage : VOH1
 Test conditions : IE/Aout=-0.5mA
 Unit : V
 Spec Limit Min : 4.000
 Spec limits are represented in bold lines on the graphic.



Measurements

VOH1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	4.606	4.611	4.605	4.612	4.609	4.606	4.608	4.607	4.607	4.608	4.610	4.598	4.607
ON PROTON samples													
6078	4.604	4.612	4.605	4.606	4.594	4.588	4.588	4.588	4.588	4.584	4.587	4.578	4.597
6079	4.607	4.611	4.602	4.600	4.585	4.578	4.578	4.579	4.580	4.574	4.580	4.574	4.589
6080	4.615	4.613	4.598	4.588	4.571	4.553	4.552	4.552	4.552	4.548	4.555	4.549	4.571
Statistics													
Min	4.604	4.611	4.598	4.588	4.571	4.553	4.552	4.552	4.552	4.548	4.555	4.549	4.571
Max	4.615	4.613	4.605	4.606	4.594	4.588	4.588	4.588	4.588	4.584	4.587	4.578	4.597
Average	4.609	4.612	4.602	4.598	4.583	4.573	4.573	4.573	4.573	4.569	4.574	4.567	4.586
Sigma	0.005	0.001	0.003	0.007	0.009	0.015	0.015	0.015	0.015	0.015	0.014	0.013	0.011

Drift Calculation

VOH1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	8.4E-03	1.2E-03	2.8E-03	-10.0E-03	-15.6E-03	-15.2E-03	-15.2E-03	-15.6E-03	-19.2E-03	-16.4E-03	-26.0E-03	-6.8E-03
6079	-	4.0E-03	-5.2E-03	-7.2E-03	-22.4E-03	-29.6E-03	-29.6E-03	-28.0E-03	-27.6E-03	-32.8E-03	-27.6E-03	-33.2E-03	-18.0E-03
6080	-	-2.4E-03	-16.8E-03	-26.8E-03	-44.0E-03	-62.0E-03	-63.2E-03	-62.8E-03	-63.2E-03	-66.8E-03	-60.0E-03	-66.0E-03	-44.0E-03
Average	-	3.3E-03	-6.9E-03	-10.4E-03	-25.5E-03	-35.7E-03	-36.0E-03	-35.3E-03	-35.5E-03	-39.6E-03	-34.7E-03	-41.7E-03	-22.9E-03
Sigma	-	4.4E-03	7.5E-03	12.3E-03	14.0E-03	19.4E-03	20.1E-03	20.1E-03	20.2E-03	20.0E-03	18.5E-03	17.4E-03	15.6E-03

Measurements

VOH1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	4.606	4.611	4.605	4.612	4.609	4.606	4.608	4.607	4.607	4.608	4.610	4.598	4.607
ON TID samples													
6036	4.577	4.586	4.581	4.586	4.580	4.576	4.576	4.576	4.576	4.572	4.575	4.569	4.580
6037	4.587	4.590	4.584	4.587	4.583	4.575	4.576	4.576	4.575	4.571	4.574	4.569	4.577
6039	4.589	4.588	4.581	4.582	4.571	4.561	4.561	4.563	4.563	4.558	4.562	4.557	4.567
Statistics													
Min	4.577	4.586	4.581	4.582	4.571	4.561	4.561	4.563	4.563	4.558	4.562	4.557	4.567
Max	4.589	4.590	4.584	4.587	4.583	4.576	4.576	4.576	4.576	4.572	4.575	4.569	4.580
Average	4.584	4.588	4.582	4.585	4.578	4.571	4.571	4.572	4.571	4.567	4.571	4.565	4.575
Sigma	0.005	0.002	0.001	0.002	0.005	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005

Drift Calculation

VOH1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	8.8E-03	4.0E-03	8.8E-03	3.2E-03	-1.6E-03	-1.2E-03	-800.1E-06	-800.1E-06	-5.6E-03	-2.0E-03	-8.0E-03	2.4E-03
6037	-	2.8E-03	-3.2E-03	0.0E+00	-4.0E-03	-12.4E-03	-11.6E-03	-11.2E-03	-12.0E-03	-16.4E-03	-13.2E-03	-18.0E-03	-10.4E-03
6039	-	-800.1E-06	-8.0E-03	-6.8E-03	-17.6E-03	-27.6E-03	-27.6E-03	-25.6E-03	-26.0E-03	-31.2E-03	-26.4E-03	-31.6E-03	-21.6E-03
Average	-	3.6E-03	-2.4E-03	666.6E-06	-6.1E-03	-13.9E-03	-13.5E-03	-12.5E-03	-12.9E-03	-17.7E-03	-13.9E-03	-19.2E-03	-9.9E-03
Sigma	-	4.0E-03	4.9E-03	6.4E-03	8.6E-03	10.7E-03	10.9E-03	10.2E-03	10.3E-03	10.5E-03	10.0E-03	9.7E-03	9.8E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VOH1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	4.606	4.611	4.605	4.612	4.609	4.606	4.608	4.607	4.607	4.608	4.610	4.598	4.607
OFF PROTON samples													
6075	4.600	4.601	4.598	4.602	4.598	4.593	4.594	4.594	4.593	4.588	4.591	4.587	4.601
6076	4.604	4.607	4.604	4.608	4.604	4.599	4.599	4.600	4.599	4.595	4.596	4.594	4.606
6077	4.564	4.566	4.562	4.566	4.561	4.553	4.555	4.556	4.554	4.549	4.553	4.549	4.559
Statistics													
Min	4.564	4.566	4.562	4.566	4.561	4.553	4.555	4.556	4.554	4.549	4.553	4.549	4.559
Max	4.604	4.607	4.604	4.608	4.604	4.599	4.599	4.600	4.599	4.595	4.596	4.594	4.606
Average	4.589	4.591	4.588	4.592	4.588	4.582	4.582	4.583	4.582	4.577	4.580	4.577	4.589
Sigma	0.018	0.018	0.019	0.018	0.019	0.020	0.020	0.019	0.020	0.020	0.019	0.020	0.021

Drift Calculation

VOH1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	1.6E-03	-1.2E-03	2.4E-03	-1.2E-03	-6.4E-03	-6.0E-03	-5.6E-03	-6.8E-03	-11.6E-03	-8.8E-03	-12.8E-03	1.2E-03
6076	-	2.8E-03	0.0E+00	4.0E-03	400.1E-06	-5.2E-03	-5.2E-03	-4.0E-03	-4.8E-03	-9.2E-03	-8.0E-03	-10.0E-03	2.4E-03
6077	-	2.0E-03	-2.8E-03	2.0E-03	-3.2E-03	-11.2E-03	-9.6E-03	-8.0E-03	-10.0E-03	-15.2E-03	-11.6E-03	-15.6E-03	-5.6E-03
Average	-	2.1E-03	-1.3E-03	2.8E-03	-1.3E-03	-7.6E-03	-6.9E-03	-5.9E-03	-7.2E-03	-12.0E-03	-9.5E-03	-12.8E-03	-666.6E-06
Sigma	-	498.8E-06	1.1E-03	863.9E-06	1.5E-03	2.6E-03	1.9E-03	1.6E-03	2.1E-03	2.5E-03	1.5E-03	2.3E-03	3.5E-03

Measurements

VOH1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	4.606	4.611	4.605	4.612	4.609	4.606	4.608	4.607	4.607	4.608	4.610	4.598	4.607
OFF TID samples													
6020	4.596	4.597	4.588	4.597	4.593	4.588	4.588	4.590	4.588	4.584	4.587	4.583	4.592
6022	4.589	4.581	4.566	4.552	4.521	4.497	4.503	4.508	4.509	4.505	4.511	4.507	4.538
6023	4.611	4.614	4.612	4.618	4.614	4.608	4.608	4.609	4.608	4.604	4.608	4.604	4.616
Statistics													
Min	4.589	4.581	4.566	4.552	4.521	4.497	4.503	4.508	4.509	4.505	4.511	4.507	4.538
Max	4.611	4.614	4.612	4.618	4.614	4.608	4.608	4.609	4.608	4.604	4.608	4.604	4.616
Average	4.599	4.597	4.589	4.589	4.576	4.564	4.566	4.569	4.569	4.564	4.569	4.565	4.582
Sigma	0.009	0.014	0.019	0.027	0.040	0.048	0.046	0.044	0.044	0.043	0.042	0.042	0.032

Drift Calculation

VOH1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	400.1E-06	-8.8E-03	800.1E-06	-3.2E-03	-8.8E-03	-8.8E-03	-6.4E-03	-8.4E-03	-12.8E-03	-9.6E-03	-13.6E-03	-4.4E-03
6022	-	-8.0E-03	-23.2E-03	-36.8E-03	-68.4E-03	-92.0E-03	-86.4E-03	-81.2E-03	-80.0E-03	-84.0E-03	-78.4E-03	-82.4E-03	-50.8E-03
6023	-	3.2E-03	1.2E-03	6.8E-03	3.2E-03	-3.2E-03	-2.8E-03	-2.0E-03	-2.8E-03	-7.2E-03	-3.2E-03	-6.8E-03	4.4E-03
Average	-	-1.5E-03	-10.3E-03	-9.7E-03	-22.8E-03	-34.7E-03	-32.7E-03	-29.9E-03	-30.4E-03	-34.7E-03	-30.4E-03	-34.3E-03	-16.9E-03
Sigma	-	4.8E-03	10.0E-03	19.3E-03	32.3E-03	40.6E-03	38.1E-03	36.3E-03	35.1E-03	35.0E-03	34.0E-03	34.1E-03	24.2E-03

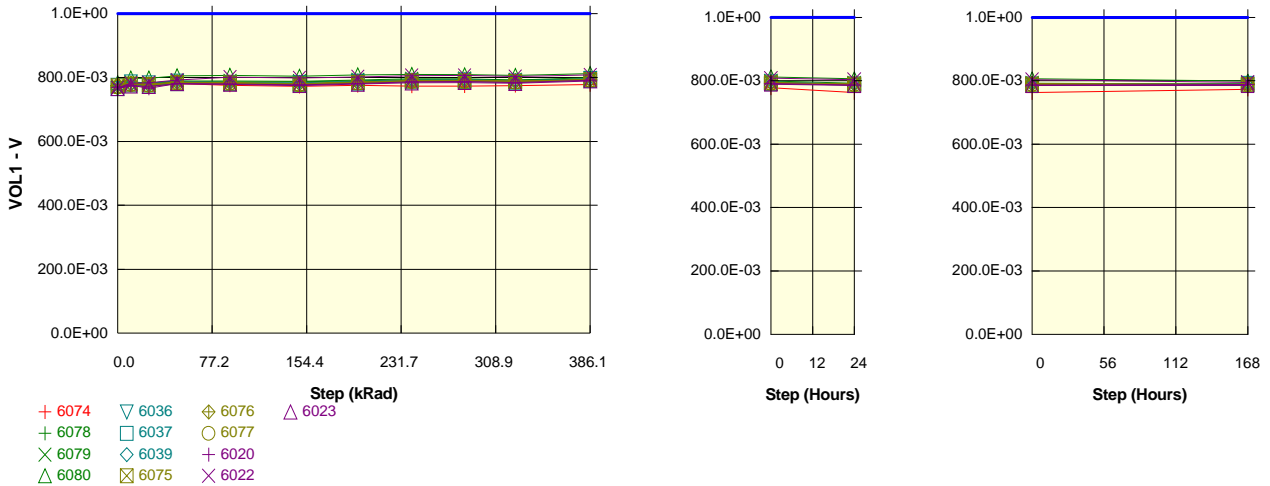
Parameter : Low Output Voltage : VOL1

Test conditions : IE/Aout=1mA

Unit : V

Spec Limit Max : 1.0E+00

Spec limits are represented in bold lines on the graphic.



Measurements

VOL1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	772.8E-03	779.2E-03	771.6E-03	781.2E-03	776.0E-03	772.4E-03	775.6E-03	773.2E-03	773.6E-03	775.2E-03	778.0E-03	762.8E-03	773.6E-03
ON PROTON samples													
6078	771.2E-03	783.6E-03	780.8E-03	788.0E-03	786.4E-03	786.8E-03	790.4E-03	793.2E-03	793.6E-03	792.0E-03	796.0E-03	787.2E-03	790.4E-03
6079	770.4E-03	784.4E-03	782.8E-03	789.6E-03	789.6E-03	788.8E-03	792.8E-03	796.0E-03	796.4E-03	792.8E-03	799.2E-03	792.8E-03	790.0E-03
6080	784.0E-03	798.0E-03	798.0E-03	805.2E-03	806.8E-03	804.0E-03	808.4E-03	809.6E-03	808.8E-03	806.4E-03	812.4E-03	806.4E-03	799.2E-03
Statistics													
Min	770.4E-03	783.6E-03	780.8E-03	788.0E-03	786.4E-03	786.8E-03	790.4E-03	793.2E-03	793.6E-03	792.0E-03	796.0E-03	787.2E-03	790.0E-03
Max	784.0E-03	798.0E-03	798.0E-03	805.2E-03	806.8E-03	804.0E-03	808.4E-03	809.6E-03	808.8E-03	806.4E-03	812.4E-03	806.4E-03	799.2E-03
Average	775.2E-03	788.7E-03	787.2E-03	794.3E-03	794.3E-03	793.2E-03	797.2E-03	799.6E-03	799.6E-03	797.1E-03	802.5E-03	795.5E-03	793.2E-03
Sigma	6.2E-03	6.6E-03	7.7E-03	7.8E-03	9.0E-03	7.7E-03	8.0E-03	7.2E-03	6.6E-03	6.6E-03	7.1E-03	8.1E-03	4.2E-03

Drift Calculation

VOL1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	12.4E-03	9.6E-03	16.8E-03	15.2E-03	15.6E-03	19.2E-03	22.0E-03	22.4E-03	20.8E-03	24.8E-03	16.0E-03	19.2E-03
6079	-	14.0E-03	12.4E-03	19.2E-03	19.2E-03	18.4E-03	22.4E-03	25.6E-03	26.0E-03	22.4E-03	28.8E-03	22.4E-03	19.6E-03
6080	-	14.0E-03	14.0E-03	21.2E-03	22.8E-03	20.0E-03	24.4E-03	25.6E-03	24.8E-03	22.4E-03	28.4E-03	22.4E-03	15.2E-03
Average	-	13.5E-03	12.0E-03	19.1E-03	19.1E-03	18.0E-03	22.0E-03	24.4E-03	24.4E-03	21.9E-03	27.3E-03	20.3E-03	18.0E-03
Sigma	-	754.3E-06	1.8E-03	1.8E-03	3.1E-03	1.8E-03	2.1E-03	1.7E-03	1.5E-03	754.3E-06	1.8E-03	3.0E-03	2.0E-03

Measurements

VOL1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	772.8E-03	779.2E-03	771.6E-03	781.2E-03	776.0E-03	772.4E-03	775.6E-03	773.2E-03	773.6E-03	775.2E-03	778.0E-03	762.8E-03	773.6E-03
ON TID samples													
6036	776.0E-03	786.8E-03	783.2E-03	789.2E-03	784.8E-03	784.0E-03	788.8E-03	791.6E-03	793.2E-03	790.0E-03	796.4E-03	790.4E-03	792.0E-03
6037	765.6E-03	776.8E-03	774.0E-03	781.2E-03	781.2E-03	778.0E-03	782.8E-03	786.8E-03	788.0E-03	785.6E-03	791.6E-03	786.8E-03	786.4E-03
6039	767.6E-03	778.8E-03	776.4E-03	784.8E-03	784.0E-03	781.6E-03	784.4E-03	789.6E-03	790.8E-03	786.8E-03	793.6E-03	789.2E-03	788.4E-03
Statistics													
Min	765.6E-03	776.8E-03	774.0E-03	781.2E-03	781.2E-03	778.0E-03	782.8E-03	786.8E-03	788.0E-03	785.6E-03	791.6E-03	786.8E-03	786.4E-03
Max	776.0E-03	786.8E-03	783.2E-03	789.2E-03	784.8E-03	784.0E-03	788.8E-03	791.6E-03	793.2E-03	790.0E-03	796.4E-03	790.4E-03	792.0E-03
Average	769.7E-03	780.8E-03	777.9E-03	785.1E-03	783.3E-03	781.2E-03	785.3E-03	789.3E-03	790.7E-03	787.5E-03	793.9E-03	788.8E-03	788.9E-03
Sigma	4.5E-03	4.3E-03	3.9E-03	3.3E-03	1.5E-03	2.5E-03	2.5E-03	2.0E-03	2.1E-03	1.9E-03	2.0E-03	1.5E-03	2.3E-03

Drift Calculation

VOL1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	10.8E-03	7.2E-03	13.2E-03	8.8E-03	8.0E-03	12.8E-03	15.6E-03	17.2E-03	14.0E-03	20.4E-03	14.4E-03	16.0E-03
6037	-	11.2E-03	8.4E-03	15.6E-03	15.6E-03	12.4E-03	17.2E-03	21.2E-03	22.4E-03	20.0E-03	26.0E-03	21.2E-03	20.8E-03
6039	-	11.2E-03	8.8E-03	17.2E-03	16.4E-03	14.0E-03	16.8E-03	22.0E-03	23.2E-03	19.2E-03	26.0E-03	21.6E-03	20.8E-03
Average	-	11.1E-03	8.1E-03	15.3E-03	13.6E-03	11.5E-03	15.6E-03	19.6E-03	20.9E-03	17.7E-03	24.1E-03	19.1E-03	19.2E-03
Sigma	-	188.6E-06	679.9E-06	1.6E-03	3.4E-03	2.5E-03	2.0E-03	2.8E-03	2.7E-03	2.7E-03	2.6E-03	3.3E-03	2.3E-03

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016	
	IS-1825ASRH					Intersil				Issue:	02	

Measurements

VOL1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	772.8E-03	779.2E-03	771.6E-03	781.2E-03	776.0E-03	772.4E-03	775.6E-03	773.2E-03	773.6E-03	775.2E-03	778.0E-03	762.8E-03	773.6E-03
OFF PROTON samples													
6075	773.6E-03	780.0E-03	778.0E-03	784.4E-03	783.2E-03	780.0E-03	785.2E-03	789.6E-03	790.0E-03	788.0E-03	793.6E-03	789.6E-03	788.8E-03
6076	775.2E-03	782.0E-03	779.2E-03	786.4E-03	784.8E-03	781.2E-03	786.0E-03	790.8E-03	792.0E-03	789.2E-03	794.0E-03	791.2E-03	790.4E-03
6077	770.8E-03	778.8E-03	776.0E-03	784.4E-03	782.4E-03	777.6E-03	783.2E-03	788.0E-03	788.4E-03	786.0E-03	792.0E-03	788.0E-03	788.0E-03
Statistics													
Min	770.8E-03	778.8E-03	776.0E-03	784.4E-03	782.4E-03	777.6E-03	783.2E-03	788.0E-03	788.4E-03	786.0E-03	792.0E-03	788.0E-03	788.0E-03
Max	775.2E-03	782.0E-03	779.2E-03	786.4E-03	784.8E-03	781.2E-03	786.0E-03	790.8E-03	792.0E-03	789.2E-03	794.0E-03	791.2E-03	790.4E-03
Average	773.2E-03	780.3E-03	777.7E-03	785.1E-03	783.5E-03	779.6E-03	784.8E-03	789.5E-03	790.1E-03	787.7E-03	793.2E-03	789.6E-03	789.1E-03
Sigma	1.8E-03	1.3E-03	1.3E-03	942.8E-06	997.8E-06	1.5E-03	1.2E-03	1.1E-03	1.5E-03	1.3E-03	864.1E-06	1.3E-03	997.8E-06

Drift Calculation

VOL1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	6.4E-03	4.4E-03	10.8E-03	9.6E-03	6.4E-03	11.6E-03	16.0E-03	16.4E-03	14.4E-03	20.0E-03	16.0E-03	15.2E-03
6076	-	6.8E-03	4.0E-03	11.2E-03	9.6E-03	6.0E-03	10.8E-03	15.6E-03	16.8E-03	14.0E-03	18.8E-03	16.0E-03	15.2E-03
6077	-	8.0E-03	5.2E-03	13.6E-03	11.6E-03	6.8E-03	12.4E-03	17.2E-03	17.6E-03	15.2E-03	21.2E-03	17.2E-03	17.2E-03
Average	-	7.1E-03	4.5E-03	11.9E-03	10.3E-03	6.4E-03	11.6E-03	16.3E-03	16.9E-03	14.5E-03	20.0E-03	16.4E-03	15.9E-03
Sigma	-	679.9E-06	498.9E-06	1.2E-03	942.8E-06	326.6E-06	653.2E-06	679.9E-06	498.9E-06	498.9E-06	979.8E-06	565.7E-06	942.8E-06

Measurements

VOL1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	772.8E-03	779.2E-03	771.6E-03	781.2E-03	776.0E-03	772.4E-03	775.6E-03	773.2E-03	773.6E-03	775.2E-03	778.0E-03	762.8E-03	773.6E-03
OFF TID samples													
6020	769.2E-03	776.0E-03	766.8E-03	781.6E-03	780.0E-03	777.6E-03	781.6E-03	786.8E-03	788.0E-03	784.8E-03	792.0E-03	786.8E-03	788.8E-03
6022	768.0E-03	782.0E-03	784.0E-03	792.4E-03	801.2E-03	798.8E-03	802.0E-03	806.0E-03	806.4E-03	803.2E-03	808.0E-03	803.6E-03	795.2E-03
6023	766.0E-03	773.6E-03	772.4E-03	780.8E-03	779.2E-03	775.2E-03	779.6E-03	783.6E-03	784.8E-03	782.0E-03	789.6E-03	785.2E-03	785.2E-03
Statistics													
Min	766.0E-03	773.6E-03	766.8E-03	780.8E-03	779.2E-03	775.2E-03	779.6E-03	783.6E-03	784.8E-03	782.0E-03	789.6E-03	785.2E-03	785.2E-03
Max	769.2E-03	782.0E-03	784.0E-03	792.4E-03	801.2E-03	798.8E-03	802.0E-03	806.0E-03	806.4E-03	803.2E-03	808.0E-03	803.6E-03	795.2E-03
Average	767.7E-03	777.2E-03	774.4E-03	784.9E-03	786.8E-03	783.9E-03	787.7E-03	792.1E-03	793.1E-03	790.0E-03	796.5E-03	791.9E-03	789.7E-03
Sigma	1.3E-03	3.5E-03	7.2E-03	5.3E-03	10.2E-03	10.6E-03	10.1E-03	9.9E-03	9.5E-03	9.4E-03	8.2E-03	8.3E-03	4.1E-03

Drift Calculation

VOL1	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	6.8E-03	-2.4E-03	12.4E-03	10.8E-03	8.4E-03	12.4E-03	17.6E-03	18.8E-03	15.6E-03	22.8E-03	17.6E-03	19.6E-03
6022	-	14.0E-03	16.0E-03	24.4E-03	33.2E-03	30.8E-03	34.0E-03	38.0E-03	38.4E-03	35.2E-03	40.0E-03	35.6E-03	27.2E-03
6023	-	7.6E-03	6.4E-03	14.8E-03	13.2E-03	9.2E-03	13.6E-03	17.6E-03	18.8E-03	16.0E-03	23.6E-03	19.2E-03	19.2E-03
Average	-	9.5E-03	6.7E-03	17.2E-03	19.1E-03	16.1E-03	20.0E-03	24.4E-03	25.3E-03	22.3E-03	28.8E-03	24.1E-03	22.0E-03
Sigma	-	3.2E-03	7.5E-03	5.2E-03	10.0E-03	10.4E-03	9.9E-03	9.6E-03	9.2E-03	9.1E-03	7.9E-03	8.1E-03	3.7E-03

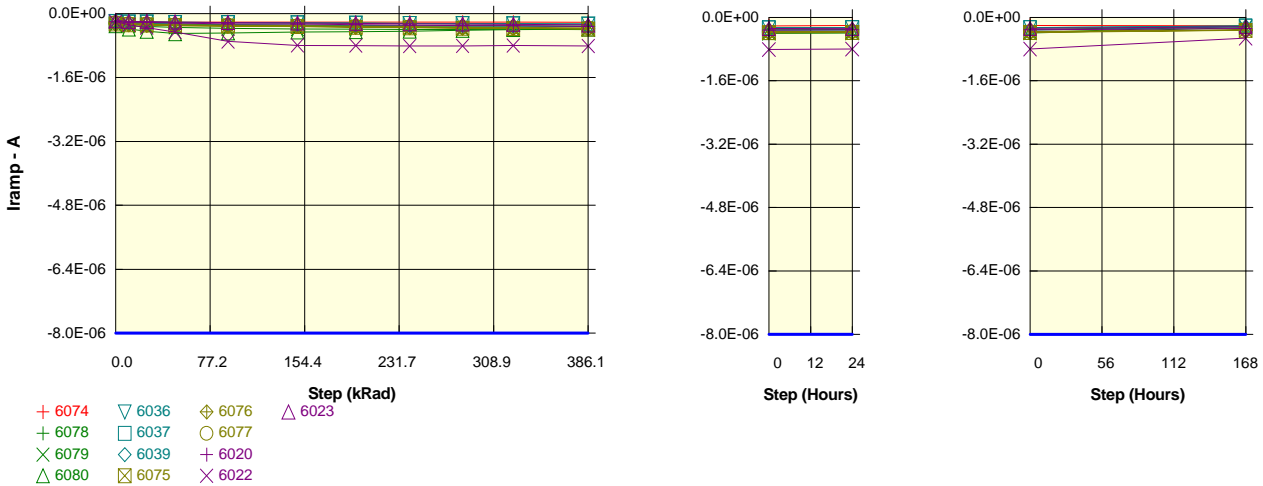
Parameter : Ramp Bias Current : Iramp

Test conditions : Vramp=0V

Unit : A

Spec Limit Min : -8.0E-06

Spec limits are represented in bold lines on the graphic.



Measurements

Iramp	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-210.8E-09	-215.2E-09	-209.1E-09	-216.9E-09	-212.8E-09	-210.0E-09	-212.5E-09	-210.9E-09	-211.7E-09	-212.3E-09	-214.2E-09	-204.8E-09	-210.5E-09
ON PROTON samples													
6078	-238.3E-09	-247.3E-09	-249.8E-09	-263.1E-09	-278.6E-09	-289.6E-09	-296.4E-09	-303.8E-09	-305.0E-09	-307.3E-09	-312.3E-09	-306.0E-09	-221.7E-09
6079	-286.4E-09	-307.0E-09	-315.8E-09	-341.4E-09	-371.9E-09	-382.4E-09	-387.9E-09	-393.1E-09	-393.6E-09	-391.0E-09	-398.5E-09	-391.4E-09	-254.7E-09
6080	-303.4E-09	-383.5E-09	-439.8E-09	-499.0E-09	-482.3E-09	-457.7E-09	-450.4E-09	-436.2E-09	-416.6E-09	-400.1E-09	-386.4E-09	-381.2E-09	-218.4E-09
Statistics													
Min	-303.4E-09	-383.5E-09	-439.8E-09	-499.0E-09	-482.3E-09	-457.7E-09	-450.4E-09	-436.2E-09	-416.6E-09	-400.1E-09	-398.5E-09	-391.4E-09	-254.7E-09
Max	-238.3E-09	-247.3E-09	-249.8E-09	-263.1E-09	-278.6E-09	-289.6E-09	-296.4E-09	-303.8E-09	-305.0E-09	-307.3E-09	-312.3E-09	-306.0E-09	-218.4E-09
Average	-276.0E-09	-312.6E-09	-335.2E-09	-367.8E-09	-377.6E-09	-376.6E-09	-378.2E-09	-377.7E-09	-371.8E-09	-366.1E-09	-365.7E-09	-359.5E-09	-231.6E-09
Sigma	27.6E-09	55.7E-09	78.8E-09	98.1E-09	83.3E-09	68.7E-09	63.2E-09	55.2E-09	48.1E-09	41.8E-09	38.1E-09	38.1E-09	16.4E-09

Drift Calculation

Iramp	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-9.0E-09	-11.5E-09	-24.8E-09	-40.3E-09	-51.3E-09	-58.1E-09	-65.5E-09	-66.7E-09	-69.0E-09	-74.0E-09	-67.7E-09	16.6E-09
6079	-	-20.7E-09	-29.4E-09	-55.0E-09	-85.5E-09	-96.1E-09	-101.5E-09	-106.8E-09	-107.3E-09	-104.7E-09	-112.1E-09	-105.0E-09	31.7E-09
6080	-	-80.1E-09	-136.4E-09	-195.6E-09	-178.9E-09	-154.3E-09	-147.0E-09	-132.8E-09	-113.2E-09	-96.7E-09	-83.0E-09	-77.8E-09	85.0E-09
Average	-	-36.6E-09	-59.1E-09	-91.8E-09	-101.5E-09	-100.5E-09	-102.2E-09	-101.7E-09	-95.7E-09	-90.1E-09	-89.7E-09	-83.5E-09	44.4E-09
Sigma	-	31.1E-09	55.1E-09	74.4E-09	57.7E-09	42.2E-09	36.3E-09	27.7E-09	20.7E-09	15.3E-09	16.3E-09	15.8E-09	29.4E-09

Measurements

Iramp	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-210.8E-09	-215.2E-09	-209.1E-09	-216.9E-09	-212.8E-09	-210.0E-09	-212.5E-09	-210.9E-09	-211.7E-09	-212.3E-09	-214.2E-09	-204.8E-09	-210.5E-09
ON TID samples													
6036	-192.7E-09	-208.4E-09	-208.8E-09	-216.8E-09	-220.8E-09	-227.0E-09	-235.7E-09	-242.1E-09	-247.3E-09	-250.7E-09	-258.1E-09	-254.7E-09	-216.5E-09
6037	-197.6E-09	-210.8E-09	-211.1E-09	-219.5E-09	-224.8E-09	-230.0E-09	-238.0E-09	-246.4E-09	-251.5E-09	-255.8E-09	-263.0E-09	-259.4E-09	-213.9E-09
6039	-224.4E-09	-243.5E-09	-246.8E-09	-261.1E-09	-275.8E-09	-286.2E-09	-295.9E-09	-303.9E-09	-309.9E-09	-312.2E-09	-321.3E-09	-317.3E-09	-233.4E-09
Statistics													
Min	-224.4E-09	-243.5E-09	-246.8E-09	-261.1E-09	-275.8E-09	-286.2E-09	-295.9E-09	-303.9E-09	-309.9E-09	-312.2E-09	-321.3E-09	-317.3E-09	-233.4E-09
Max	-192.7E-09	-208.4E-09	-208.8E-09	-216.8E-09	-220.8E-09	-227.0E-09	-235.7E-09	-242.1E-09	-247.3E-09	-250.7E-09	-258.1E-09	-254.7E-09	-213.9E-09
Average	-204.9E-09	-220.9E-09	-222.2E-09	-232.5E-09	-240.5E-09	-247.7E-09	-256.5E-09	-264.1E-09	-269.6E-09	-272.9E-09	-280.8E-09	-277.2E-09	-221.3E-09
Sigma	13.9E-09	16.0E-09	17.4E-09	20.3E-09	25.0E-09	27.3E-09	27.9E-09	28.2E-09	28.6E-09	27.9E-09	28.7E-09	28.5E-09	8.7E-09

Drift Calculation

Iramp	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-15.7E-09	-16.1E-09	-24.1E-09	-28.1E-09	-34.3E-09	-43.0E-09	-49.4E-09	-54.6E-09	-58.0E-09	-65.4E-09	-62.0E-09	-23.8E-09
6037	-	-13.2E-09	-13.6E-09	-21.9E-09	-27.2E-09	-32.4E-09	-40.4E-09	-48.8E-09	-53.9E-09	-58.2E-09	-65.4E-09	-61.8E-09	-16.3E-09
6039	-	-19.1E-09	-22.3E-09	-36.7E-09	-51.4E-09	-61.8E-09	-71.5E-09	-79.5E-09	-85.5E-09	-87.8E-09	-96.9E-09	-92.9E-09	-9.0E-09
Average	-	-16.0E-09	-17.3E-09	-27.6E-09	-35.6E-09	-42.8E-09	-51.6E-09	-59.2E-09	-64.7E-09	-68.0E-09	-75.9E-09	-72.3E-09	-16.4E-09
Sigma	-	2.4E-09	3.7E-09	6.5E-09	11.2E-09	13.4E-09	14.1E-09	14.3E-09	14.7E-09	14.0E-09	14.8E-09	14.6E-09	6.0E-09

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

Iramp	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-210.8E-09	-215.2E-09	-209.1E-09	-216.9E-09	-212.8E-09	-210.0E-09	-212.5E-09	-210.9E-09	-211.7E-09	-212.3E-09	-214.2E-09	-204.8E-09	-210.5E-09
OFF PROTON samples													
6075	-259.7E-09	-275.4E-09	-280.7E-09	-296.0E-09	-311.6E-09	-321.8E-09	-338.1E-09	-353.1E-09	-363.7E-09	-370.1E-09	-387.7E-09	-379.8E-09	-325.2E-09
6076	-263.7E-09	-278.8E-09	-281.8E-09	-296.8E-09	-308.5E-09	-317.5E-09	-332.3E-09	-344.9E-09	-355.0E-09	-359.6E-09	-373.0E-09	-369.2E-09	-316.0E-09
6077	-227.9E-09	-250.9E-09	-257.7E-09	-274.9E-09	-289.3E-09	-299.3E-09	-313.4E-09	-327.3E-09	-337.3E-09	-344.0E-09	-357.6E-09	-354.4E-09	-310.2E-09
Statistics													
Min	-263.7E-09	-278.8E-09	-281.8E-09	-296.8E-09	-311.6E-09	-321.8E-09	-338.1E-09	-353.1E-09	-363.7E-09	-370.1E-09	-387.7E-09	-379.8E-09	-325.2E-09
Max	-227.9E-09	-250.9E-09	-257.7E-09	-274.9E-09	-289.3E-09	-299.3E-09	-313.4E-09	-327.3E-09	-337.3E-09	-344.0E-09	-357.6E-09	-354.4E-09	-310.2E-09
Average	-250.4E-09	-268.4E-09	-273.4E-09	-289.2E-09	-303.1E-09	-312.9E-09	-327.9E-09	-341.8E-09	-352.0E-09	-357.9E-09	-372.7E-09	-367.8E-09	-317.1E-09
Sigma	16.0E-09	12.5E-09	11.1E-09	10.1E-09	9.9E-09	9.7E-09	10.6E-09	10.8E-09	11.0E-09	10.8E-09	12.3E-09	10.4E-09	6.2E-09

Drift Calculation

Iramp	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-15.7E-09	-21.0E-09	-36.3E-09	-51.9E-09	-62.1E-09	-78.4E-09	-93.5E-09	-104.0E-09	-110.5E-09	-128.0E-09	-120.1E-09	-65.6E-09
6076	-	-15.1E-09	-18.1E-09	-33.1E-09	-44.7E-09	-53.7E-09	-68.6E-09	-81.2E-09	-91.3E-09	-95.9E-09	-109.3E-09	-105.5E-09	-52.2E-09
6077	-	-22.9E-09	-29.8E-09	-47.0E-09	-61.4E-09	-71.4E-09	-85.4E-09	-99.4E-09	-109.4E-09	-116.0E-09	-129.6E-09	-126.5E-09	-82.3E-09
Average	-	-17.9E-09	-23.0E-09	-38.8E-09	-52.7E-09	-62.4E-09	-77.5E-09	-91.3E-09	-101.6E-09	-107.5E-09	-122.3E-09	-117.4E-09	-66.7E-09
Sigma	-	3.5E-09	5.0E-09	5.9E-09	6.8E-09	7.2E-09	6.9E-09	7.6E-09	7.6E-09	8.5E-09	9.2E-09	8.8E-09	12.3E-09

Measurements

Iramp	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-210.8E-09	-215.2E-09	-209.1E-09	-216.9E-09	-212.8E-09	-210.0E-09	-212.5E-09	-210.9E-09	-211.7E-09	-212.3E-09	-214.2E-09	-204.8E-09	-210.5E-09
OFF TID samples													
6020	-200.3E-09	-219.1E-09	-217.5E-09	-237.8E-09	-251.7E-09	-261.0E-09	-274.7E-09	-287.4E-09	-297.6E-09	-301.9E-09	-318.1E-09	-311.2E-09	-282.7E-09
6022	-199.2E-09	-279.4E-09	-346.9E-09	-456.7E-09	-693.8E-09	-795.3E-09	-799.3E-09	-809.2E-09	-806.7E-09	-796.2E-09	-810.8E-09	-797.8E-09	-524.8E-09
6023	-174.3E-09	-191.1E-09	-196.5E-09	-208.7E-09	-220.3E-09	-229.6E-09	-241.7E-09	-252.5E-09	-260.8E-09	-266.3E-09	-279.9E-09	-276.1E-09	-234.0E-09
Statistics													
Min	-200.3E-09	-279.4E-09	-346.9E-09	-456.7E-09	-693.8E-09	-795.3E-09	-799.3E-09	-809.2E-09	-806.7E-09	-796.2E-09	-810.8E-09	-797.8E-09	-524.8E-09
Max	-174.3E-09	-191.1E-09	-196.5E-09	-208.7E-09	-220.3E-09	-229.6E-09	-241.7E-09	-252.5E-09	-260.8E-09	-266.3E-09	-279.9E-09	-276.1E-09	-234.0E-09
Average	-191.3E-09	-229.8E-09	-253.6E-09	-301.1E-09	-388.6E-09	-428.6E-09	-438.6E-09	-449.7E-09	-455.0E-09	-454.8E-09	-469.6E-09	-461.7E-09	-347.2E-09
Sigma	12.0E-09	36.9E-09	66.5E-09	110.7E-09	216.2E-09	259.6E-09	255.4E-09	254.6E-09	249.1E-09	241.8E-09	241.8E-09	238.1E-09	127.2E-09

Drift Calculation

Iramp	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-18.8E-09	-17.2E-09	-37.5E-09	-51.4E-09	-60.7E-09	-74.4E-09	-87.1E-09	-97.3E-09	-101.6E-09	-117.8E-09	-110.9E-09	-82.4E-09
6022	-	-80.2E-09	-147.7E-09	-257.5E-09	-494.6E-09	-596.1E-09	-600.1E-09	-610.0E-09	-607.5E-09	-597.0E-09	-611.6E-09	-598.6E-09	-325.6E-09
6023	-	-16.7E-09	-22.1E-09	-34.3E-09	-45.9E-09	-55.3E-09	-67.4E-09	-78.2E-09	-86.4E-09	-91.9E-09	-105.6E-09	-101.7E-09	-59.7E-09
Average	-	-38.6E-09	-62.3E-09	-109.8E-09	-197.3E-09	-237.3E-09	-247.3E-09	-258.4E-09	-263.8E-09	-263.5E-09	-278.3E-09	-270.4E-09	-155.9E-09
Sigma	-	29.4E-09	60.4E-09	104.5E-09	210.2E-09	253.7E-09	249.5E-09	248.6E-09	243.1E-09	235.8E-09	235.7E-09	232.1E-09	120.3E-09

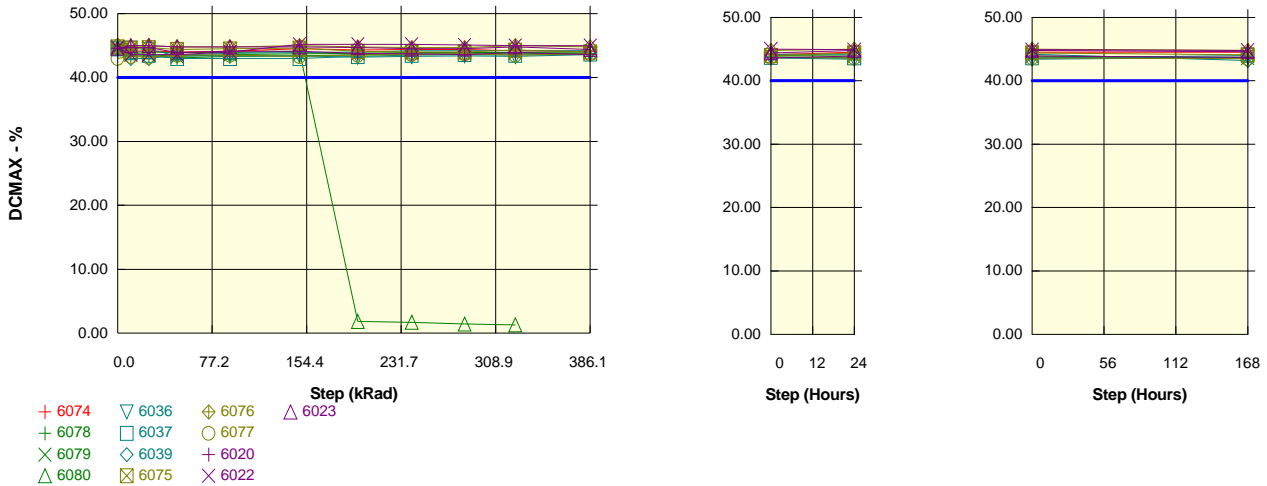
Parameter : Maximun Duty Cycle : DCMAXOUTA

Test conditions :

Unit : %

Spec Limit Min : 40.00

Spec limits are represented in bold lines on the graphic.



Measurements

DCMAXOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	44.20	44.10	44.20	44.00	44.10	44.50	44.30	44.40	44.40	44.20	44.10	44.50	44.50
ON_PROTON samples													
6078	44.50	43.40	43.40	43.10	43.30	43.40	43.60	43.70	43.70	43.70	43.80	43.60	43.70
6079	44.50	43.60	43.60	43.30	43.60	43.70	43.80	43.90	43.90	43.90	44.00	43.90	43.60
6080	44.60	44.00	44.00	43.90	43.90	44.10	1.83	1.70	1.44	1.30			
Statistics													
Min	44.50	43.40	43.40	43.10	43.30	43.40	1.83	1.70	1.44	1.30	43.80	43.60	43.60
Max	44.60	44.00	44.00	43.90	43.90	44.10	43.80	43.90	43.90	43.90	44.00	43.90	43.70
Average	44.53	43.67	43.67	43.43	43.60	43.73	29.74	29.77	29.68	29.63	43.90	43.75	43.65
Sigma	0.05	0.25	0.25	0.34	0.24	0.29	19.74	19.85	19.97	20.03	0.10	0.15	0.05

Drift Calculation

DCMAXOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	-1.1E+00	-1.1E+00	-1.4E+00	-1.2E+00	-1.1E+00	-900.0E-03	-800.0E-03	-800.0E-03	-800.0E-03	-700.0E-03	-900.0E-03	-800.0E-03
6079	-	-900.0E-03	-900.0E-03	-1.2E+00	-900.0E-03	-800.0E-03	-700.0E-03	-600.0E-03	-600.0E-03	-600.0E-03	-500.0E-03	-600.0E-03	-900.0E-03
6080	-	-600.0E-03	-600.0E-03	-700.0E-03	-700.0E-03	-500.0E-03	-42.8E+00	-42.9E+00	-43.2E+00	-43.3E+00			
Average	-	-866.7E-03	-866.7E-03	-1.1E+00	-933.3E-03	-800.0E-03	-14.8E+00	-14.8E+00	-14.9E+00	-14.9E+00	-600.0E-03	-750.0E-03	-850.0E-03
Sigma	-	205.5E-03	205.5E-03	294.4E-03	205.5E-03	244.9E-03	19.8E+00	19.9E+00	20.0E+00	20.1E+00	100.0E-03	150.0E-03	50.0E-03

Measurements

DCMAXOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	44.20	44.10	44.20	44.00	44.10	44.50	44.30	44.40	44.40	44.20	44.10	44.50	44.50
ON_TID samples													
6036	44.60	44.60	44.40	43.40	43.40	43.40	43.20	43.30	43.40	43.30	43.60	43.40	43.70
6037	44.50	43.90	43.50	43.00	43.00	43.00	43.30	43.50	43.60	43.50	43.70	43.60	44.00
6039	44.50	43.00	43.00	43.50	43.80	43.90	44.00	44.20	44.20	44.20	44.20	44.20	43.20
Statistics													
Min	44.50	43.00	43.00	43.00	43.00	43.00	43.20	43.30	43.40	43.30	43.60	43.40	43.20
Max	44.60	44.60	44.40	43.50	43.80	43.90	44.00	44.20	44.20	44.20	44.20	44.20	44.00
Average	44.53	43.83	43.63	43.30	43.40	43.43	43.50	43.67	43.73	43.67	43.83	43.73	43.63
Sigma	0.05	0.65	0.58	0.22	0.33	0.37	0.36	0.39	0.34	0.39	0.26	0.34	0.33

Drift Calculation

DCMAXOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	0.0E+00	-200.0E-03	-1.2E+00	-1.2E+00	-1.2E+00	-1.4E+00	-1.3E+00	-1.2E+00	-1.3E+00	-1.0E+00	-1.2E+00	-900.0E-03
6037	-	-600.0E-03	-1.0E+00	-1.5E+00	-1.5E+00	-1.5E+00	-1.2E+00	-1.0E+00	-900.0E-03	-1.0E+00	-800.0E-03	-900.0E-03	-500.0E-03
6039	-	-1.5E+00	-1.5E+00	-1.0E+00	-700.0E-03	-600.0E-03	-500.0E-03	-300.0E-03	-300.0E-03	-300.0E-03	-300.0E-03	-300.0E-03	-1.3E+00
Average	-	-700.0E-03	-900.0E-03	-1.2E+00	-1.1E+00	-1.1E+00	-1.0E+00	-866.7E-03	-800.0E-03	-866.7E-03	-700.0E-03	-800.0E-03	-900.0E-03
Sigma	-	616.4E-03	535.4E-03	205.5E-03	330.0E-03	374.2E-03	385.9E-03	419.0E-03	374.2E-03	419.0E-03	294.4E-03	374.2E-03	326.6E-03

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

DCMAXOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	44.20	44.10	44.20	44.00	44.10	44.50	44.30	44.40	44.40	44.20	44.10	44.50	44.50
OFF-PROTON samples													
6075	44.80	44.60	44.70	44.40	44.50	44.60	44.10	44.00	44.00	44.30	44.00	44.40	44.10
6076	45.10	44.90	45.00	44.80	44.80	45.00	44.80	44.70	44.70	45.00	44.80	45.00	44.80
6077	43.00	43.30	43.20	43.50	43.50	43.30	43.50	43.60	43.70	43.50	43.70	43.60	43.50
Statistics													
Min	43.00	43.30	43.20	43.50	43.50	43.30	43.50	43.60	43.70	43.50	43.70	43.60	43.50
Max	45.10	44.90	45.00	44.80	44.80	45.00	44.80	44.70	44.70	45.00	44.80	45.00	44.80
Average	44.30	44.27	44.30	44.23	44.27	44.30	44.13	44.10	44.13	44.27	44.17	44.33	44.13
Sigma	0.93	0.69	0.79	0.54	0.56	0.73	0.53	0.45	0.42	0.61	0.46	0.57	0.53

Drift Calculation

DCMAXOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	-200.0E-03	-100.0E-03	-400.0E-03	-300.0E-03	-200.0E-03	-700.0E-03	-800.0E-03	-800.0E-03	-500.0E-03	-800.0E-03	-400.0E-03	-700.0E-03
6076	-	-200.0E-03	-100.0E-03	-300.0E-03	-300.0E-03	-100.0E-03	-300.0E-03	-400.0E-03	-400.0E-03	-100.0E-03	-300.0E-03	-100.0E-03	-300.0E-03
6077	-	300.0E-03	200.0E-03	500.0E-03	500.0E-03	300.0E-03	500.0E-03	600.0E-03	700.0E-03	500.0E-03	700.0E-03	600.0E-03	500.0E-03
Average	-	-33.3E-03	1.3E-06	-66.7E-03	-33.3E-03	0.0E+00	-166.7E-03	-200.0E-03	-166.7E-03	-33.3E-03	-133.3E-03	33.3E-03	-166.7E-03
Sigma	-	235.7E-03	141.4E-03	402.8E-03	377.1E-03	216.0E-03	498.9E-03	588.8E-03	634.2E-03	411.0E-03	623.6E-03	419.0E-03	498.9E-03

Measurements

DCMAXOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	44.20	44.10	44.20	44.00	44.10	44.50	44.30	44.40	44.40	44.20	44.10	44.50	44.50
OFF-TID samples													
6020	44.60	44.70	44.70	43.90	44.10	44.10	43.80	43.70	43.60	43.90	43.60	43.90	43.70
6022	44.70	43.60	43.60	43.60	44.00	45.20	45.20	45.20	45.10	45.00	45.00	44.90	44.80
6023	44.60	45.00	45.00	44.80	44.80	44.80	44.70	44.50	44.50	44.80	44.40	44.80	44.60
Statistics													
Min	44.60	43.60	43.60	43.60	44.00	44.10	43.80	43.70	43.60	43.90	43.60	43.90	43.70
Max	44.70	45.00	45.00	44.80	44.80	45.20	45.20	45.20	45.10	45.00	45.00	44.90	44.80
Average	44.63	44.43	44.43	44.10	44.30	44.70	44.57	44.47	44.40	44.57	44.33	44.53	44.37
Sigma	0.05	0.60	0.60	0.51	0.36	0.45	0.58	0.61	0.62	0.48	0.57	0.45	0.48

Drift Calculation

DCMAXOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	100.0E-03	100.0E-03	-700.0E-03	-500.0E-03	-500.0E-03	-800.0E-03	-900.0E-03	-1.0E+00	-700.0E-03	-1.0E+00	-700.0E-03	-900.0E-03
6022	-	-1.1E+00	-1.1E+00	-1.1E+00	-700.0E-03	500.0E-03	500.0E-03	500.0E-03	400.0E-03	300.0E-03	300.0E-03	200.0E-03	100.0E-03
6023	-	400.0E-03	400.0E-03	200.0E-03	200.0E-03	200.0E-03	100.0E-03	-100.0E-03	-100.0E-03	200.0E-03	-200.0E-03	200.0E-03	0.0E+00
Average	-	-200.0E-03	-200.0E-03	-533.3E-03	-333.3E-03	66.7E-03	-66.7E-03	-166.7E-03	-233.3E-03	-66.7E-03	-300.0E-03	-100.0E-03	-266.7E-03
Sigma	-	648.1E-03	648.1E-03	543.7E-03	385.9E-03	419.0E-03	543.7E-03	573.5E-03	579.3E-03	449.7E-03	535.4E-03	424.3E-03	449.7E-03

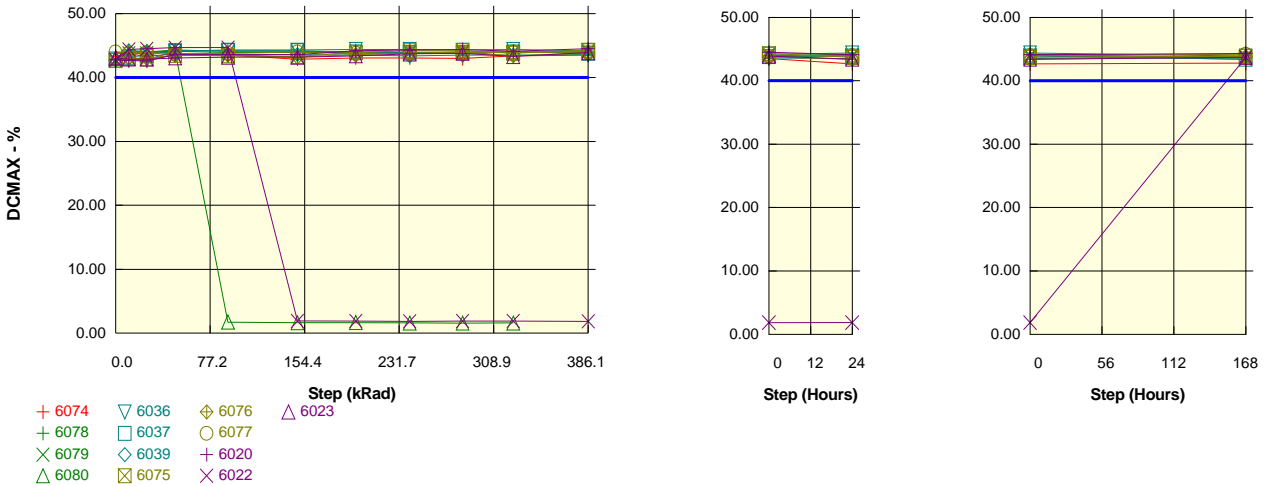
Parameter : Maximun Duty Cycle : DCMAXOUTB

Test conditions :

Unit : %

Spec Limit Min : 40.00

Spec limits are represented in bold lines on the graphic.



Measurements

DCMAXOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	43.30	43.70	43.30	43.70	43.50	42.90	43.10	43.10	43.00	43.40	43.50	42.70	42.80
ON PROTON samples													
6078	42.80	44.10	44.00	44.30	44.10	44.10	44.00	43.90	44.00	44.00	44.00	44.20	43.60
6079	42.60	43.80	43.80	44.10	43.90	43.90	43.90	43.90	43.90	44.00	44.00	44.00	43.40
6080	43.00	43.80	43.90	44.20	1.73	1.63	1.65	1.60	1.58	1.59			
Statistics													
Min	42.60	43.80	43.80	44.10	1.73	1.63	1.65	1.60	1.58	1.59	44.00	44.00	43.40
Max	43.00	44.10	44.00	44.30	44.10	44.10	44.00	43.90	44.00	44.00	44.00	44.20	43.60
Average	42.80	43.90	43.90	44.20	29.91	29.88	29.85	29.80	29.83	29.86	44.00	44.10	43.50
Sigma	0.16	0.14	0.08	0.08	19.93	19.97	19.94	19.94	19.97	19.99	0.00	0.10	0.10

Drift Calculation

DCMAXOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	1.3E+00	1.2E+00	1.5E+00	1.3E+00	1.3E+00	1.2E+00	1.1E+00	1.2E+00	1.2E+00	1.2E+00	1.4E+00	800.0E-03
6079	-	1.2E+00	1.2E+00	1.5E+00	1.3E+00	1.3E+00	1.3E+00	1.3E+00	1.3E+00	1.4E+00	1.4E+00	1.4E+00	800.0E-03
6080	-	800.0E-03	900.0E-03	1.2E+00	-41.3E+00	-41.4E+00	-41.4E+00	-41.4E+00	-41.4E+00	-41.4E+00			
Average	-	1.1E+00	1.1E+00	1.4E+00	-12.9E+00	-12.9E+00	-12.9E+00	-13.0E+00	-13.0E+00	-12.9E+00	1.3E+00	1.4E+00	800.0E-03
Sigma	-	216.0E-03	141.4E-03	141.4E-03	20.1E+00	20.1E+00	20.1E+00	20.1E+00	20.1E+00	20.1E+00	100.0E-03	0.0E+00	1.9E-06

Measurements

DCMAXOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	43.30	43.70	43.30	43.70	43.50	42.90	43.10	43.10	43.00	43.40	43.50	42.70	42.80
ON TID samples													
6036	42.90	42.70	42.80	44.10	44.30	44.30	44.40	44.40	44.30	44.40	44.20	44.40	43.90
6037	42.70	43.20	43.50	44.20	44.20	44.20	44.00	43.90	43.90	44.00	43.80	43.90	43.40
6039	42.70	44.20	44.10	43.80	43.60	43.60	43.50	43.40	43.50	43.50	43.60	43.50	43.80
Statistics													
Min	42.70	42.70	42.80	43.80	43.60	43.60	43.50	43.40	43.50	43.50	43.60	43.50	43.40
Max	42.90	44.20	44.10	44.20	44.30	44.30	44.40	44.40	44.30	44.40	44.20	44.40	43.90
Average	42.77	43.37	43.47	44.03	44.03	44.03	43.97	43.90	43.90	43.97	43.87	43.93	43.70
Sigma	0.09	0.62	0.53	0.17	0.31	0.31	0.37	0.41	0.33	0.37	0.25	0.37	0.22

Drift Calculation

DCMAXOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-200.0E-03	-100.0E-03	1.2E+00	1.4E+00	1.4E+00	1.5E+00	1.5E+00	1.4E+00	1.5E+00	1.3E+00	1.5E+00	1.0E+00
6037	-	500.0E-03	800.0E-03	1.5E+00	1.5E+00	1.5E+00	1.3E+00	1.2E+00	1.2E+00	1.3E+00	1.1E+00	1.2E+00	700.0E-03
6039	-	1.5E+00	1.4E+00	1.1E+00	900.0E-03	900.0E-03	800.0E-03	700.0E-03	800.0E-03	800.0E-03	900.0E-03	800.0E-03	1.1E+00
Average	-	600.0E-03	700.0E-03	1.3E+00	1.3E+00	1.3E+00	1.2E+00	1.1E+00	1.1E+00	1.2E+00	1.1E+00	1.2E+00	933.3E-03
Sigma	-	697.6E-03	616.4E-03	170.0E-03	262.5E-03	262.5E-03	294.4E-03	330.0E-03	249.4E-03	294.4E-03	163.3E-03	286.7E-03	170.0E-03

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

DCMAXOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	43.30	43.70	43.30	43.70	43.50	42.90	43.10	43.10	43.00	43.40	43.50	42.70	42.80
OFF-PROTON samples													
6075	42.70	43.00	42.90	43.50	43.40	43.30	43.90	44.20	44.20	43.80	44.30	43.70	43.90
6076	42.80	43.10	43.00	43.50	43.50	43.20	43.60	43.80	44.00	43.40	43.80	43.40	43.80
6077	44.00	43.80	43.90	43.70	43.80	44.00	43.80	43.80	43.80	44.00	43.90	44.00	44.20
Statistics													
Min	42.70	43.00	42.90	43.50	43.40	43.20	43.60	43.80	43.80	43.40	43.80	43.40	43.80
Max	44.00	43.80	43.90	43.70	43.80	44.00	43.90	44.20	44.00	44.00	44.30	44.00	44.20
Average	43.17	43.30	43.27	43.57	43.57	43.50	43.77	43.93	44.00	43.73	44.00	43.70	43.97
Sigma	0.59	0.36	0.45	0.09	0.17	0.36	0.12	0.19	0.16	0.25	0.22	0.24	0.17

Drift Calculation

DCMAXOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	300.0E-03	200.0E-03	800.0E-03	700.0E-03	600.0E-03	1.2E+00	1.5E+00	1.5E+00	1.1E+00	1.6E+00	1.0E+00	1.2E+00
6076	-	300.0E-03	200.0E-03	700.0E-03	700.0E-03	400.0E-03	800.0E-03	1.0E+00	1.2E+00	600.0E-03	1.0E+00	600.0E-03	1.0E+00
6077	-	-200.0E-03	-100.0E-03	-300.0E-03	-200.0E-03	0.0E+00	-200.0E-03	-200.0E-03	-200.0E-03	0.0E+00	-100.0E-03	0.0E+00	200.0E-03
Average	-	133.3E-03	100.0E-03	400.0E-03	400.0E-03	333.3E-03	600.0E-03	766.7E-03	833.3E-03	566.7E-03	833.3E-03	533.3E-03	800.0E-03
Sigma	-	235.7E-03	141.4E-03	496.7E-03	424.3E-03	249.4E-03	588.8E-03	713.4E-03	740.9E-03	449.7E-03	704.0E-03	411.0E-03	432.0E-03

Measurements

DCMAXOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	43.30	43.70	43.30	43.70	43.50	42.90	43.10	43.10	43.00	43.40	43.50	42.70	42.80
OFF-TID samples													
6020	42.80	42.70	42.60	43.60	43.60	43.60	44.20	44.30	44.40	44.10	44.50	44.10	44.30
6022	42.80	44.40	44.50	44.70	44.70	1.92	1.89	1.86	1.90	1.90	1.85	1.88	43.70
6023	43.10	42.90	42.90	43.10	43.20	43.20	43.40	43.70	43.80	43.30	43.90	43.40	43.70
Statistics													
Min	42.80	42.70	42.60	43.10	43.20	1.92	1.89	1.86	1.90	1.90	1.85	1.88	43.70
Max	43.10	44.40	44.50	44.70	44.70	43.60	44.20	44.30	44.40	44.10	44.50	44.10	44.30
Average	42.90	43.33	43.33	43.80	43.83	29.57	29.83	29.95	30.03	29.77	30.08	29.79	43.90
Sigma	0.14	0.76	0.83	0.67	0.63	19.55	19.76	19.87	19.89	19.71	19.97	19.74	0.28

Drift Calculation

DCMAXOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	-100.0E-03	-200.0E-03	800.0E-03	800.0E-03	800.0E-03	1.4E+00	1.5E+00	1.6E+00	1.3E+00	1.7E+00	1.3E+00	1.5E+00
6022	-	1.6E+00	1.7E+00	1.9E+00	1.9E+00	-40.9E+00	-40.9E+00	-40.9E+00	-40.9E+00	-40.9E+00	-40.9E+00	-40.9E+00	900.0E-03
6023	-	-200.0E-03	-200.0E-03	0.0E+00	100.0E-03	100.0E-03	300.0E-03	600.0E-03	700.0E-03	200.0E-03	800.0E-03	300.0E-03	600.0E-03
Average	-	433.3E-03	433.3E-03	900.0E-03	933.3E-03	-13.3E+00	-13.1E+00	-12.9E+00	-12.9E+00	-13.1E+00	-12.8E+00	-13.1E+00	1.0E+00
Sigma	-	826.0E-03	895.7E-03	778.9E-03	740.9E-03	19.5E+00	19.7E+00	19.8E+00	19.8E+00	19.6E+00	19.9E+00	19.7E+00	374.2E-03

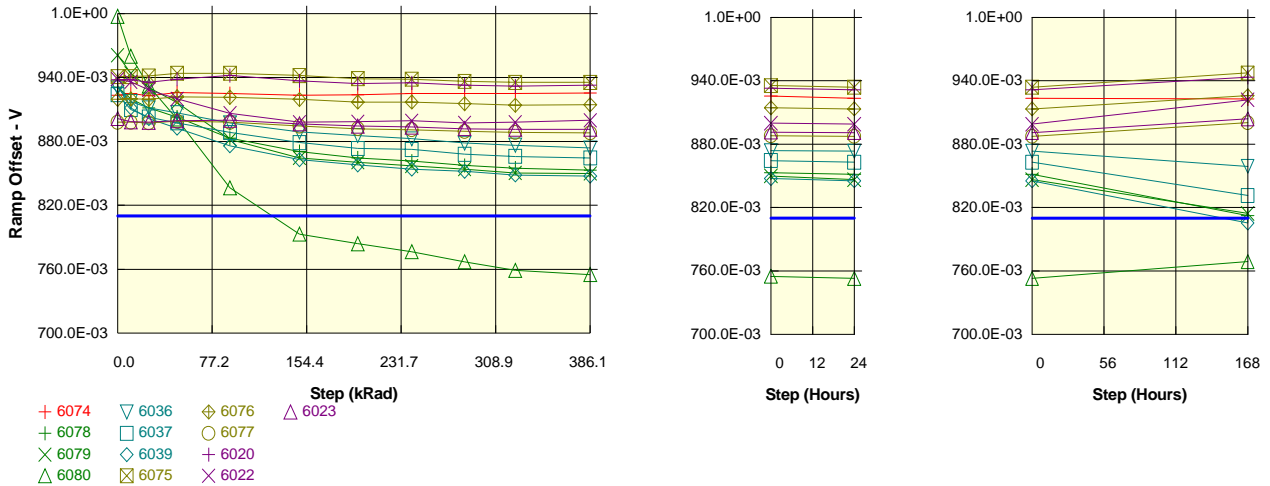
Parameter : E/A Out Zero DC Threshold Voltage : Ramp Offset

Test conditions : V_{ramp}=0V

Unit : V

Spec Limit Min : 810.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

Ramp Offset	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	923.5E-03	925.0E-03	923.0E-03	926.0E-03	925.0E-03	923.5E-03	924.0E-03	925.0E-03	925.0E-03	925.0E-03	925.5E-03	923.5E-03	923.0E-03
ON PROTON samples													
6078	931.0E-03	920.0E-03	911.5E-03	903.0E-03	883.0E-03	870.5E-03	864.5E-03	861.5E-03	857.5E-03	855.0E-03	853.0E-03	851.5E-03	812.5E-03
6079	961.0E-03	944.0E-03	930.5E-03	916.5E-03	882.0E-03	864.5E-03	860.5E-03	857.0E-03	854.0E-03	850.5E-03	850.0E-03	846.5E-03	814.5E-03
6080	997.5E-03	960.0E-03	932.0E-03	901.0E-03	836.5E-03	793.0E-03	784.0E-03	776.5E-03	767.0E-03	759.0E-03	755.0E-03	753.0E-03	769.0E-03
Statistics													
Min	931.0E-03	920.0E-03	911.5E-03	901.0E-03	836.5E-03	793.0E-03	784.0E-03	776.5E-03	767.0E-03	759.0E-03	755.0E-03	753.0E-03	769.0E-03
Max	997.5E-03	960.0E-03	932.0E-03	916.5E-03	883.0E-03	870.5E-03	864.5E-03	861.5E-03	857.5E-03	855.0E-03	853.0E-03	851.5E-03	814.5E-03
Average	963.2E-03	941.3E-03	924.7E-03	906.8E-03	867.2E-03	842.7E-03	836.3E-03	831.7E-03	826.2E-03	821.5E-03	819.3E-03	817.0E-03	798.7E-03
Sigma	27.2E-03	16.4E-03	9.3E-03	6.9E-03	21.7E-03	35.2E-03	37.0E-03	39.1E-03	41.9E-03	44.2E-03	45.5E-03	45.3E-03	21.0E-03

Drift Calculation

Ramp Offset	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-11.0E-03	-19.5E-03	-28.0E-03	-48.0E-03	-60.5E-03	-66.5E-03	-69.5E-03	-73.5E-03	-76.0E-03	-78.0E-03	-79.5E-03	-118.5E-03
6079	-	-17.0E-03	-30.5E-03	-44.5E-03	-79.0E-03	-96.5E-03	-100.5E-03	-104.0E-03	-107.0E-03	-110.5E-03	-111.0E-03	-114.5E-03	-146.5E-03
6080	-	-37.5E-03	-65.5E-03	-96.5E-03	-161.0E-03	-204.5E-03	-213.5E-03	-221.0E-03	-230.5E-03	-238.5E-03	-242.5E-03	-244.5E-03	-228.5E-03
Average	-	-21.8E-03	-38.5E-03	-56.3E-03	-96.0E-03	-120.5E-03	-126.8E-03	-131.5E-03	-137.0E-03	-141.7E-03	-143.8E-03	-146.2E-03	-164.5E-03
Sigma	-	11.3E-03	19.6E-03	29.2E-03	47.7E-03	61.2E-03	62.8E-03	64.8E-03	67.5E-03	69.9E-03	71.1E-03	71.0E-03	46.7E-03

Measurements

Ramp Offset	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	923.5E-03	925.0E-03	923.0E-03	926.0E-03	925.0E-03	923.5E-03	924.0E-03	925.0E-03	925.0E-03	925.0E-03	925.5E-03	923.5E-03	923.0E-03
ON TID samples													
6036	930.5E-03	917.5E-03	911.5E-03	907.0E-03	897.5E-03	889.0E-03	885.5E-03	882.5E-03	878.5E-03	876.5E-03	874.0E-03	873.5E-03	859.0E-03
6037	924.0E-03	910.0E-03	903.0E-03	897.5E-03	888.5E-03	879.0E-03	873.5E-03	872.5E-03	868.0E-03	866.0E-03	864.5E-03	863.0E-03	831.5E-03
6039	932.5E-03	911.5E-03	901.5E-03	892.5E-03	876.0E-03	863.0E-03	858.0E-03	854.0E-03	852.0E-03	848.5E-03	847.5E-03	845.5E-03	805.5E-03
Statistics													
Min	924.0E-03	910.0E-03	901.5E-03	892.5E-03	876.0E-03	863.0E-03	858.0E-03	854.0E-03	852.0E-03	848.5E-03	847.5E-03	845.5E-03	805.5E-03
Max	932.5E-03	917.5E-03	911.5E-03	907.0E-03	897.5E-03	889.0E-03	885.5E-03	882.5E-03	878.5E-03	876.5E-03	874.0E-03	873.5E-03	859.0E-03
Average	929.0E-03	913.0E-03	905.3E-03	899.0E-03	887.3E-03	877.0E-03	872.3E-03	869.7E-03	866.2E-03	863.7E-03	862.0E-03	860.7E-03	832.0E-03
Sigma	3.6E-03	3.2E-03	4.4E-03	6.0E-03	8.8E-03	10.7E-03	11.3E-03	11.8E-03	10.9E-03	11.5E-03	11.0E-03	11.5E-03	21.8E-03

Drift Calculation

Ramp Offset	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-13.0E-03	-19.0E-03	-23.5E-03	-33.0E-03	-41.5E-03	-45.0E-03	-48.0E-03	-52.0E-03	-54.0E-03	-56.5E-03	-57.0E-03	-71.5E-03
6037	-	-14.0E-03	-21.0E-03	-26.5E-03	-35.5E-03	-45.0E-03	-50.5E-03	-51.5E-03	-56.0E-03	-58.0E-03	-59.5E-03	-61.0E-03	-92.5E-03
6039	-	-21.0E-03	-31.0E-03	-40.0E-03	-56.5E-03	-69.5E-03	-74.5E-03	-78.5E-03	-80.5E-03	-84.0E-03	-85.0E-03	-87.0E-03	-127.0E-03
Average	-	-16.0E-03	-23.7E-03	-30.0E-03	-41.7E-03	-52.0E-03	-56.7E-03	-59.3E-03	-62.8E-03	-65.3E-03	-67.0E-03	-68.3E-03	-97.0E-03
Sigma	-	3.6E-03	5.2E-03	7.2E-03	10.5E-03	12.5E-03	12.8E-03	13.6E-03	12.6E-03	13.3E-03	12.8E-03	13.3E-03	22.9E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

Ramp Offset	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	923.5E-03	925.0E-03	923.0E-03	926.0E-03	925.0E-03	923.5E-03	924.0E-03	925.0E-03	925.0E-03	925.0E-03	925.5E-03	923.5E-03	923.0E-03
OFF PROTON samples													
6075	941.0E-03	941.0E-03	941.5E-03	944.0E-03	944.0E-03	942.0E-03	939.0E-03	938.5E-03	936.5E-03	935.5E-03	935.5E-03	934.0E-03	947.5E-03
6076	919.5E-03	920.0E-03	919.5E-03	922.0E-03	921.5E-03	919.5E-03	917.0E-03	917.0E-03	915.5E-03	914.0E-03	914.5E-03	913.5E-03	926.0E-03
6077	898.0E-03	898.0E-03	897.5E-03	899.0E-03	898.0E-03	894.5E-03	892.0E-03	891.0E-03	889.5E-03	888.5E-03	888.0E-03	887.5E-03	900.5E-03
Statistics													
Min	898.0E-03	898.0E-03	897.5E-03	899.0E-03	898.0E-03	894.5E-03	892.0E-03	891.0E-03	889.5E-03	888.5E-03	888.0E-03	887.5E-03	900.5E-03
Max	941.0E-03	941.0E-03	941.5E-03	944.0E-03	944.0E-03	942.0E-03	939.0E-03	938.5E-03	936.5E-03	935.5E-03	935.5E-03	934.0E-03	947.5E-03
Average	919.5E-03	919.7E-03	919.5E-03	921.7E-03	921.2E-03	918.7E-03	916.0E-03	915.5E-03	913.8E-03	912.7E-03	912.7E-03	911.7E-03	924.7E-03
Sigma	17.6E-03	17.6E-03	18.0E-03	18.4E-03	18.8E-03	19.4E-03	19.2E-03	19.4E-03	19.2E-03	19.2E-03	19.4E-03	19.0E-03	19.2E-03

Drift Calculation

Ramp Offset	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	0.0E+00	500.0E-06	3.0E-03	3.0E-03	1000.0E-06	-2.0E-03	-2.5E-03	-4.5E-03	-5.5E-03	-5.5E-03	-7.0E-03	6.5E-03
6076	-	500.1E-06	0.0E+00	2.5E-03	2.0E-03	119.2E-09	-2.5E-03	-2.5E-03	-4.0E-03	-5.5E-03	-5.0E-03	-6.0E-03	6.5E-03
6077	-	0.0E+00	-500.0E-06	1000.0E-06	0.0E+00	-3.5E-03	-6.0E-03	-7.0E-03	-8.5E-03	-9.5E-03	-10.0E-03	-10.5E-03	2.5E-03
Average	-	166.7E-06	-19.9E-09	2.2E-03	1.7E-03	-833.3E-06	-3.5E-03	-4.0E-03	-5.7E-03	-6.8E-03	-6.8E-03	-7.8E-03	5.2E-03
Sigma	-	235.7E-06	408.2E-06	849.8E-06	1.2E-03	1.9E-03	1.8E-03	2.1E-03	2.0E-03	1.9E-03	2.2E-03	1.9E-03	1.9E-03

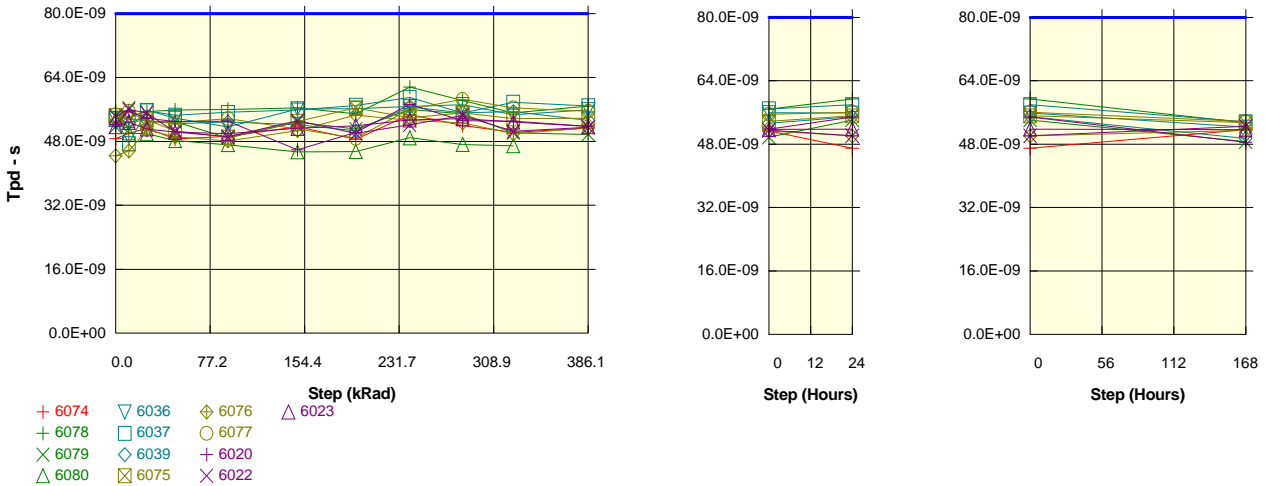
Measurements

Ramp Offset	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	923.5E-03	925.0E-03	923.0E-03	926.0E-03	925.0E-03	923.5E-03	924.0E-03	925.0E-03	925.0E-03	925.0E-03	925.5E-03	923.5E-03	923.0E-03
OFF TID samples													
6020	938.0E-03	938.0E-03	935.5E-03	938.5E-03	942.0E-03	937.0E-03	934.5E-03	935.0E-03	933.0E-03	932.0E-03	933.0E-03	931.5E-03	943.5E-03
6022	938.5E-03	936.0E-03	928.5E-03	920.0E-03	906.5E-03	898.0E-03	898.5E-03	899.5E-03	897.5E-03	898.0E-03	900.0E-03	899.0E-03	922.0E-03
6023	901.5E-03	898.5E-03	898.0E-03	899.5E-03	900.0E-03	896.5E-03	894.5E-03	893.5E-03	892.0E-03	891.5E-03	891.5E-03	891.0E-03	904.0E-03
Statistics													
Min	901.5E-03	898.5E-03	898.0E-03	899.5E-03	900.0E-03	896.5E-03	894.5E-03	893.5E-03	892.0E-03	891.5E-03	891.5E-03	891.0E-03	904.0E-03
Max	938.5E-03	938.0E-03	935.5E-03	938.5E-03	942.0E-03	937.0E-03	934.5E-03	935.0E-03	933.0E-03	932.0E-03	933.0E-03	931.5E-03	943.5E-03
Average	926.0E-03	924.2E-03	920.7E-03	919.3E-03	916.2E-03	910.5E-03	909.2E-03	909.3E-03	907.5E-03	907.2E-03	908.2E-03	907.2E-03	923.2E-03
Sigma	17.3E-03	18.2E-03	16.3E-03	15.9E-03	18.5E-03	18.7E-03	18.0E-03	18.3E-03	18.2E-03	17.8E-03	17.9E-03	17.5E-03	16.1E-03

Drift Calculation

Ramp Offset	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-59.6E-09	-2.5E-03	500.0E-06	4.0E-03	-1000.0E-06	-3.5E-03	-3.0E-03	-5.0E-03	-6.0E-03	-5.0E-03	-6.5E-03	5.5E-03
6022	-	-2.5E-03	-10.0E-03	-18.5E-03	-32.0E-03	-40.5E-03	-40.0E-03	-39.0E-03	-41.0E-03	-40.5E-03	-38.5E-03	-39.5E-03	-16.5E-03
6023	-	-3.0E-03	-3.5E-03	-2.0E-03	-1.5E-03	-5.0E-03	-7.0E-03	-8.0E-03	-9.5E-03	-10.0E-03	-10.0E-03	-10.5E-03	2.5E-03
Average	-	-1.8E-03	-5.3E-03	-6.7E-03	-9.8E-03	-15.5E-03	-16.8E-03	-16.7E-03	-18.5E-03	-18.8E-03	-17.8E-03	-18.8E-03	-2.8E-03
Sigma	-	1.3E-03	3.3E-03	8.4E-03	15.8E-03	17.8E-03	16.4E-03	15.9E-03	16.0E-03	15.4E-03	14.8E-03	14.7E-03	9.7E-03

Parameter : Delay To Output : Tpd
 Test conditions : VE/Aout=2.1V. Voltage On Ilim/SD pin. 0V to 2V
 Unit : s
 Spec Limit Max : 80.0E-09
 Spec limits are represented in bold lines on the graphic.



Measurements

Tpd	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	48.7E-09	50.0E-09	51.3E-09	48.6E-09	49.2E-09	51.7E-09	48.6E-09	54.8E-09	52.0E-09	50.3E-09	51.4E-09	47.0E-09	51.7E-09
ON PROTON samples													
6078	55.6E-09	51.5E-09	55.5E-09	55.9E-09	56.0E-09	56.4E-09	55.0E-09	61.6E-09	58.3E-09	55.2E-09	56.9E-09	59.5E-09	53.4E-09
6079	51.7E-09	56.4E-09	52.9E-09	53.0E-09	48.9E-09	52.9E-09	51.1E-09	56.0E-09	54.9E-09	50.2E-09	49.8E-09	54.1E-09	48.6E-09
6080	53.6E-09	50.1E-09	50.0E-09	48.2E-09	47.2E-09	45.4E-09	45.5E-09	48.9E-09	47.2E-09	46.9E-09			
Statistics													
Min	51.7E-09	50.1E-09	50.0E-09	48.2E-09	47.2E-09	45.4E-09	45.5E-09	48.9E-09	47.2E-09	46.9E-09	49.8E-09	54.1E-09	48.6E-09
Max	55.6E-09	56.4E-09	55.5E-09	55.9E-09	56.0E-09	56.4E-09	55.0E-09	61.6E-09	58.3E-09	55.2E-09	56.9E-09	59.5E-09	53.4E-09
Average	53.6E-09	52.7E-09	52.8E-09	52.4E-09	50.7E-09	51.6E-09	50.5E-09	55.5E-09	53.5E-09	50.8E-09	53.3E-09	56.8E-09	51.0E-09
Sigma	1.6E-09	2.7E-09	2.3E-09	3.2E-09	3.8E-09	4.6E-09	3.9E-09	5.2E-09	4.6E-09	3.4E-09	3.5E-09	2.7E-09	2.4E-09

Drift Calculation

Tpd	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-4.1E-09	-87.0E-12	305.0E-12	474.0E-12	838.0E-12	-609.0E-12	6.0E-09	2.7E-09	-391.0E-12	1.3E-09	3.9E-09	-2.2E-09
6079	-	4.6E-09	1.2E-09	1.3E-09	-2.8E-09	1.1E-09	-617.0E-12	4.3E-09	3.2E-09	-1.5E-09	-1.9E-09	2.4E-09	-3.1E-09
6080	-	-3.5E-09	-3.6E-09	-5.4E-09	-6.4E-09	-8.2E-09	-8.1E-09	-4.7E-09	-6.3E-09	-6.7E-09			
Average	-	-956.3E-12	-836.3E-12	-1.3E-09	-2.9E-09	-2.1E-09	-3.1E-09	1.9E-09	-141.3E-12	-2.9E-09	-314.0E-12	3.1E-09	-2.6E-09
Sigma	-	4.0E-09	2.1E-09	2.9E-09	2.8E-09	4.3E-09	3.5E-09	4.7E-09	4.4E-09	2.7E-09	1.6E-09	755.0E-12	463.5E-12

Measurements

Tpd	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	48.7E-09	50.0E-09	51.3E-09	48.6E-09	49.2E-09	51.7E-09	48.6E-09	54.8E-09	52.0E-09	50.3E-09	51.4E-09	47.0E-09	51.7E-09
ON TID samples													
6036	53.8E-09	53.9E-09	55.8E-09	53.8E-09	51.6E-09	56.1E-09	56.2E-09	56.8E-09	57.2E-09	54.7E-09	56.0E-09	55.9E-09	52.3E-09
6037	53.6E-09	47.5E-09	55.7E-09	54.6E-09	55.3E-09	55.9E-09	57.0E-09	59.0E-09	55.1E-09	57.8E-09	56.9E-09	58.0E-09	53.7E-09
6039	52.9E-09	52.9E-09	53.3E-09	52.5E-09	52.9E-09	52.2E-09	50.7E-09	56.7E-09	55.2E-09	55.5E-09	53.3E-09	54.9E-09	49.5E-09
Statistics													
Min	52.9E-09	47.5E-09	53.3E-09	52.5E-09	51.6E-09	52.2E-09	50.7E-09	56.7E-09	55.1E-09	54.7E-09	53.3E-09	54.9E-09	49.5E-09
Max	53.8E-09	53.9E-09	55.8E-09	54.6E-09	55.3E-09	56.1E-09	57.0E-09	59.0E-09	57.2E-09	57.8E-09	56.9E-09	58.0E-09	53.7E-09
Average	53.4E-09	51.4E-09	54.9E-09	53.6E-09	53.3E-09	54.7E-09	54.6E-09	57.5E-09	55.8E-09	56.0E-09	55.4E-09	56.3E-09	51.8E-09
Sigma	410.5E-12	2.8E-09	1.1E-09	877.0E-12	1.5E-09	1.8E-09	2.8E-09	1.1E-09	989.4E-12	1.3E-09	1.5E-09	1.3E-09	1.8E-09

Drift Calculation

Tpd	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	89.0E-12	2.0E-09	35.0E-12	-2.2E-09	2.4E-09	2.4E-09	3.0E-09	3.5E-09	881.0E-12	2.2E-09	2.1E-09	-1.5E-09
6037	-	-6.2E-09	2.0E-09	930.0E-12	1.7E-09	2.2E-09	3.4E-09	5.3E-09	1.5E-09	4.2E-09	3.3E-09	4.4E-09	38.0E-12
6039	-	17.0E-12	495.0E-12	-400.0E-12	30.0E-12	-671.0E-12	-2.2E-09	3.8E-09	2.4E-09	2.6E-09	450.0E-12	2.1E-09	-3.4E-09
Average	-	-2.0E-09	1.5E-09	188.3E-12	-162.3E-12	1.3E-09	1.2E-09	4.0E-09	2.4E-09	2.6E-09	2.0E-09	2.8E-09	-1.6E-09
Sigma	-	2.9E-09	718.0E-12	553.7E-12	1.6E-09	1.4E-09	2.4E-09	980.2E-12	820.4E-12	1.3E-09	1.2E-09	1.1E-09	1.4E-09

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

Tpd	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	48.7E-09	50.0E-09	51.3E-09	48.6E-09	49.2E-09	51.7E-09	48.6E-09	54.8E-09	52.0E-09	50.3E-09	51.4E-09	47.0E-09	51.7E-09
OFF-PROTON samples													
6075	54.5E-09	53.7E-09	53.4E-09	50.7E-09	49.1E-09	53.0E-09	56.4E-09	53.9E-09	55.2E-09	53.7E-09	53.8E-09	55.2E-09	53.4E-09
6076	44.4E-09	45.6E-09	50.9E-09	49.2E-09	48.1E-09	50.7E-09	54.6E-09	53.3E-09	52.7E-09	50.0E-09	51.4E-09	50.1E-09	51.5E-09
6077	54.6E-09	55.6E-09	52.9E-09	52.7E-09	53.7E-09	51.1E-09	48.8E-09	56.1E-09	58.5E-09	56.4E-09	55.6E-09	56.1E-09	53.7E-09
Statistics													
Min	44.4E-09	45.6E-09	50.9E-09	49.2E-09	48.1E-09	50.7E-09	48.8E-09	53.3E-09	52.7E-09	50.0E-09	51.4E-09	50.1E-09	51.5E-09
Max	54.6E-09	55.6E-09	53.4E-09	52.7E-09	53.7E-09	53.0E-09	56.4E-09	56.1E-09	58.5E-09	56.4E-09	55.6E-09	56.1E-09	53.7E-09
Average	51.2E-09	51.6E-09	52.4E-09	50.8E-09	50.3E-09	51.6E-09	53.3E-09	54.4E-09	55.5E-09	53.4E-09	53.6E-09	53.8E-09	52.9E-09
Sigma	4.8E-09	4.3E-09	1.1E-09	1.4E-09	2.4E-09	1.0E-09	3.2E-09	1.2E-09	2.4E-09	2.6E-09	1.7E-09	2.6E-09	1.0E-09

Drift Calculation

Tpd	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	-871.0E-12	-1.1E-09	-3.9E-09	-5.4E-09	-1.5E-09	1.9E-09	-649.0E-12	635.0E-12	-835.0E-12	-719.0E-12	633.0E-12	-1.1E-09
6076	-	1.2E-09	6.5E-09	4.8E-09	3.7E-09	6.3E-09	10.2E-09	8.8E-09	8.3E-09	5.5E-09	6.9E-09	5.7E-09	7.0E-09
6077	-	981.0E-12	-1.7E-09	-1.9E-09	-892.0E-12	-3.5E-09	-5.8E-09	1.5E-09	3.9E-09	1.8E-09	963.0E-12	1.5E-09	-902.0E-12
Average	-	435.3E-12	1.2E-09	-344.3E-12	-865.0E-12	446.7E-12	2.1E-09	3.2E-09	4.3E-09	2.2E-09	2.4E-09	2.6E-09	1.7E-09
Sigma	-	927.9E-12	3.7E-09	3.7E-09	3.7E-09	4.2E-09	6.5E-09	4.1E-09	3.1E-09	2.6E-09	3.3E-09	2.2E-09	3.8E-09

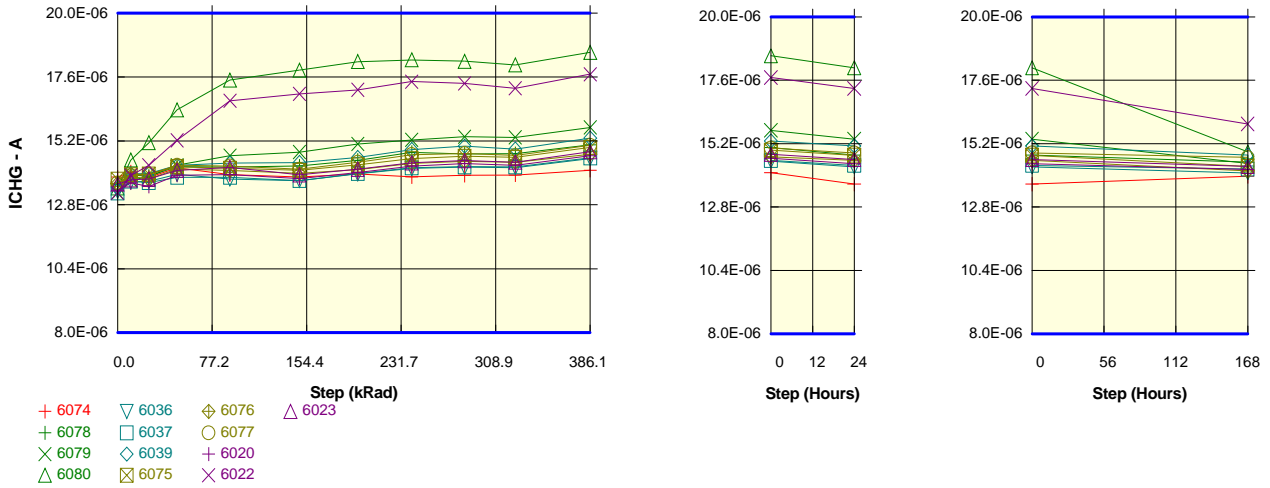
Measurements

Tpd	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	48.7E-09	50.0E-09	51.3E-09	48.6E-09	49.2E-09	51.7E-09	48.6E-09	54.8E-09	52.0E-09	50.3E-09	51.4E-09	47.0E-09	51.7E-09
OFF-TID samples													
6020	52.3E-09	55.6E-09	53.8E-09	53.0E-09	53.1E-09	45.9E-09	50.3E-09	57.3E-09	53.2E-09	53.1E-09	51.8E-09	54.9E-09	48.5E-09
6022	54.3E-09	56.0E-09	55.1E-09	50.3E-09	49.2E-09	53.2E-09	50.0E-09	52.2E-09	54.5E-09	50.5E-09	51.5E-09	50.2E-09	52.5E-09
6023	51.7E-09	52.8E-09	51.1E-09	50.3E-09	50.0E-09	51.3E-09	51.9E-09	53.4E-09	53.7E-09	52.9E-09	51.7E-09	51.8E-09	51.7E-09
Statistics													
Min	51.7E-09	52.8E-09	51.1E-09	50.3E-09	49.2E-09	45.9E-09	50.0E-09	52.2E-09	53.2E-09	50.5E-09	51.5E-09	50.2E-09	48.5E-09
Max	54.3E-09	56.0E-09	55.1E-09	53.0E-09	53.1E-09	53.2E-09	51.9E-09	57.3E-09	54.5E-09	53.1E-09	51.8E-09	54.9E-09	52.5E-09
Average	52.7E-09	54.8E-09	53.3E-09	51.2E-09	50.8E-09	50.1E-09	50.7E-09	54.3E-09	53.8E-09	52.2E-09	51.7E-09	52.3E-09	50.9E-09
Sigma	1.1E-09	1.4E-09	1.7E-09	1.3E-09	1.7E-09	3.1E-09	850.9E-12	2.2E-09	538.6E-12	1.2E-09	127.7E-12	1.9E-09	1.7E-09

Drift Calculation

Tpd	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	3.3E-09	1.5E-09	764.0E-12	837.0E-12	-6.3E-09	-2.0E-09	5.1E-09	952.0E-12	819.0E-12	-414.0E-12	2.6E-09	-3.8E-09
6022	-	1.8E-09	881.0E-12	-3.9E-09	-5.1E-09	-1.0E-09	-4.2E-09	-2.1E-09	257.0E-12	-3.7E-09	-2.7E-09	-4.1E-09	-1.7E-09
6023	-	1.1E-09	-599.0E-12	-1.4E-09	-1.7E-09	-430.0E-12	225.0E-12	1.7E-09	2.0E-09	1.2E-09	30.0E-12	120.0E-12	-39.0E-12
Average	-	2.1E-09	606.0E-12	-1.5E-09	-2.0E-09	-2.6E-09	-2.0E-09	1.6E-09	1.1E-09	-573.3E-12	-1.0E-09	-454.7E-12	-1.8E-09
Sigma	-	939.1E-12	893.0E-12	1.9E-09	2.4E-09	2.7E-09	1.8E-09	2.9E-09	706.9E-12	2.2E-09	1.2E-09	2.8E-09	1.5E-09

Parameter : Charge Current : ICHG
 Test conditions : Soft Start Voltage = 2.5V
 Unit : A
 Spec Limit Min : 8.0E-06
 Spec Limit Max : 20.0E-06
 Spec limits are represented in bold lines on the graphic.



Measurements

ICHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.8E-06	14.0E-06	13.8E-06	14.2E-06	13.9E-06	13.8E-06	14.0E-06	13.9E-06	13.9E-06	13.9E-06	14.1E-06	13.7E-06	14.0E-06
ON PROTON samples													
6078	13.6E-06	13.9E-06	13.9E-06	14.2E-06	14.2E-06	14.3E-06	14.5E-06	14.8E-06	14.7E-06	14.7E-06	15.1E-06	14.8E-06	14.5E-06
6079	13.2E-06	13.7E-06	13.9E-06	14.3E-06	14.6E-06	14.8E-06	15.1E-06	15.2E-06	15.4E-06	15.3E-06	15.7E-06	15.4E-06	14.5E-06
6080	13.4E-06	14.5E-06	15.1E-06	16.4E-06	17.5E-06	17.9E-06	18.2E-06	18.2E-06	18.2E-06	18.1E-06	18.5E-06	18.1E-06	14.9E-06
Statistics													
Min	13.2E-06	13.7E-06	13.9E-06	14.2E-06	14.2E-06	14.3E-06	14.5E-06	14.8E-06	14.7E-06	14.7E-06	15.1E-06	14.8E-06	14.5E-06
Max	13.6E-06	14.5E-06	15.1E-06	16.4E-06	17.5E-06	17.9E-06	18.2E-06	18.2E-06	18.2E-06	18.1E-06	18.5E-06	18.1E-06	14.9E-06
Average	13.4E-06	14.0E-06	14.3E-06	15.0E-06	15.5E-06	15.6E-06	15.9E-06	16.1E-06	16.1E-06	16.0E-06	16.4E-06	16.1E-06	14.6E-06
Sigma	138.5E-09	324.7E-09	596.9E-09	994.5E-09	1.5E-06	1.6E-06	1.6E-06	1.5E-06	1.5E-06	1.4E-06	1.5E-06	1.4E-06	195.8E-09

Drift Calculation

ICHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	332.0E-09	296.0E-09	650.0E-09	628.0E-09	678.0E-09	894.0E-09	1.2E-06	1.1E-06	1.1E-06	1.5E-06	1.2E-06	914.0E-09
6079	-	472.0E-09	614.0E-09	1.0E-06	1.4E-06	1.5E-06	1.8E-06	2.0E-06	2.1E-06	2.1E-06	2.5E-06	2.1E-06	1.2E-06
6080	-	1.0E-06	1.7E-06	2.9E-06	4.0E-06	4.4E-06	4.7E-06	4.8E-06	4.8E-06	4.6E-06	5.1E-06	4.6E-06	1.5E-06
Average	-	616.0E-09	868.7E-09	1.5E-06	2.0E-06	2.2E-06	2.5E-06	2.7E-06	2.7E-06	2.6E-06	3.0E-06	2.7E-06	1.2E-06
Sigma	-	308.0E-09	599.2E-09	995.6E-09	1.5E-06	1.6E-06	1.6E-06	1.6E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06	220.1E-09

Measurements

ICHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.8E-06	14.0E-06	13.8E-06	14.2E-06	13.9E-06	13.8E-06	14.0E-06	13.9E-06	13.9E-06	13.9E-06	14.1E-06	13.7E-06	14.0E-06
ON TID samples													
6036	13.3E-06	13.7E-06	13.7E-06	13.9E-06	13.8E-06	13.7E-06	14.0E-06	14.2E-06	14.2E-06	14.2E-06	14.5E-06	14.3E-06	14.1E-06
6037	13.2E-06	13.7E-06	13.6E-06	13.8E-06	13.8E-06	13.7E-06	14.0E-06	14.2E-06	14.2E-06	14.2E-06	14.6E-06	14.4E-06	14.2E-06
6039	13.4E-06	14.0E-06	14.0E-06	14.3E-06	14.4E-06	14.4E-06	14.6E-06	14.9E-06	15.0E-06	14.9E-06	15.3E-06	15.1E-06	14.8E-06
Statistics													
Min	13.2E-06	13.7E-06	13.6E-06	13.8E-06	13.8E-06	13.7E-06	14.0E-06	14.2E-06	14.2E-06	14.2E-06	14.5E-06	14.3E-06	14.1E-06
Max	13.4E-06	14.0E-06	14.0E-06	14.3E-06	14.4E-06	14.4E-06	14.6E-06	14.9E-06	15.0E-06	14.9E-06	15.3E-06	15.1E-06	14.8E-06
Average	13.3E-06	13.8E-06	13.8E-06	14.0E-06	14.0E-06	13.9E-06	14.2E-06	14.4E-06	14.5E-06	14.4E-06	14.8E-06	14.6E-06	14.4E-06
Sigma	82.2E-09	130.8E-09	149.9E-09	189.7E-09	270.1E-09	319.6E-09	285.7E-09	328.4E-09	369.7E-09	323.6E-09	354.2E-09	359.4E-09	291.1E-09

Drift Calculation

ICHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	360.0E-09	376.0E-09	644.0E-09	466.0E-09	412.0E-09	664.0E-09	862.0E-09	912.0E-09	896.0E-09	1.2E-06	1.0E-06	792.0E-09
6037	-	450.0E-09	394.0E-09	592.0E-09	592.0E-09	470.0E-09	738.0E-09	952.0E-09	990.0E-09	982.0E-09	1.3E-06	1.1E-06	998.0E-09
6039	-	514.0E-09	534.0E-09	842.0E-09	932.0E-09	952.0E-09	1.1E-06	1.4E-06	1.6E-06	1.5E-06	1.9E-06	1.7E-06	1.3E-06
Average	-	441.3E-09	434.7E-09	692.7E-09	663.3E-09	611.3E-09	847.3E-09	1.1E-06	1.2E-06	1.1E-06	1.5E-06	1.3E-06	1.0E-06
Sigma	-	63.2E-09	70.6E-09	107.7E-09	196.8E-09	242.0E-09	209.1E-09	252.1E-09	292.6E-09	247.2E-09	277.4E-09	283.7E-09	222.5E-09

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

ICHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.8E-06	14.0E-06	13.8E-06	14.2E-06	13.9E-06	13.8E-06	14.0E-06	13.9E-06	13.9E-06	13.9E-06	14.1E-06	13.7E-06	14.0E-06
OFF PROTON samples													
6075	13.8E-06	13.9E-06	14.0E-06	14.2E-06	14.2E-06	14.1E-06	14.3E-06	14.5E-06	14.6E-06	14.6E-06	15.0E-06	14.8E-06	14.3E-06
6076	13.8E-06	13.9E-06	13.8E-06	14.1E-06	14.1E-06	14.0E-06	14.1E-06	14.4E-06	14.4E-06	14.4E-06	14.7E-06	14.6E-06	14.2E-06
6077	13.6E-06	13.9E-06	13.9E-06	14.3E-06	14.3E-06	14.1E-06	14.4E-06	14.7E-06	14.7E-06	14.7E-06	15.0E-06	14.9E-06	14.7E-06
Statistics													
Min	13.6E-06	13.9E-06	13.8E-06	14.1E-06	14.1E-06	14.0E-06	14.1E-06	14.4E-06	14.4E-06	14.4E-06	14.7E-06	14.6E-06	14.2E-06
Max	13.8E-06	13.9E-06	14.0E-06	14.3E-06	14.3E-06	14.1E-06	14.4E-06	14.7E-06	14.7E-06	14.7E-06	15.0E-06	14.9E-06	14.7E-06
Average	13.7E-06	13.9E-06	13.9E-06	14.2E-06	14.2E-06	14.1E-06	14.3E-06	14.5E-06	14.6E-06	14.5E-06	14.9E-06	14.7E-06	14.4E-06
Sigma	70.9E-09	25.4E-09	81.3E-09	59.0E-09	67.8E-09	63.9E-09	114.7E-09	133.3E-09	121.0E-09	105.8E-09	142.0E-09	118.0E-09	214.2E-09

Drift Calculation

ICHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	170.0E-09	192.0E-09	466.0E-09	416.0E-09	338.0E-09	536.0E-09	778.0E-09	864.0E-09	824.0E-09	1.2E-06	1.0E-06	580.0E-09
6076	-	264.0E-09	168.0E-09	540.0E-09	484.0E-09	380.0E-09	518.0E-09	756.0E-09	830.0E-09	796.0E-09	1.1E-06	962.0E-09	560.0E-09
6077	-	280.0E-09	320.0E-09	672.0E-09	638.0E-09	518.0E-09	784.0E-09	1.1E-06	1.1E-06	1.0E-06	1.4E-06	1.2E-06	1.1E-06
Average	-	238.0E-09	226.7E-09	559.3E-09	512.7E-09	412.0E-09	612.7E-09	868.0E-09	934.7E-09	884.7E-09	1.2E-06	1.1E-06	734.7E-09
Sigma	-	48.5E-09	66.7E-09	85.2E-09	92.9E-09	76.9E-09	121.4E-09	143.1E-09	124.8E-09	106.2E-09	133.7E-09	119.0E-09	233.0E-09

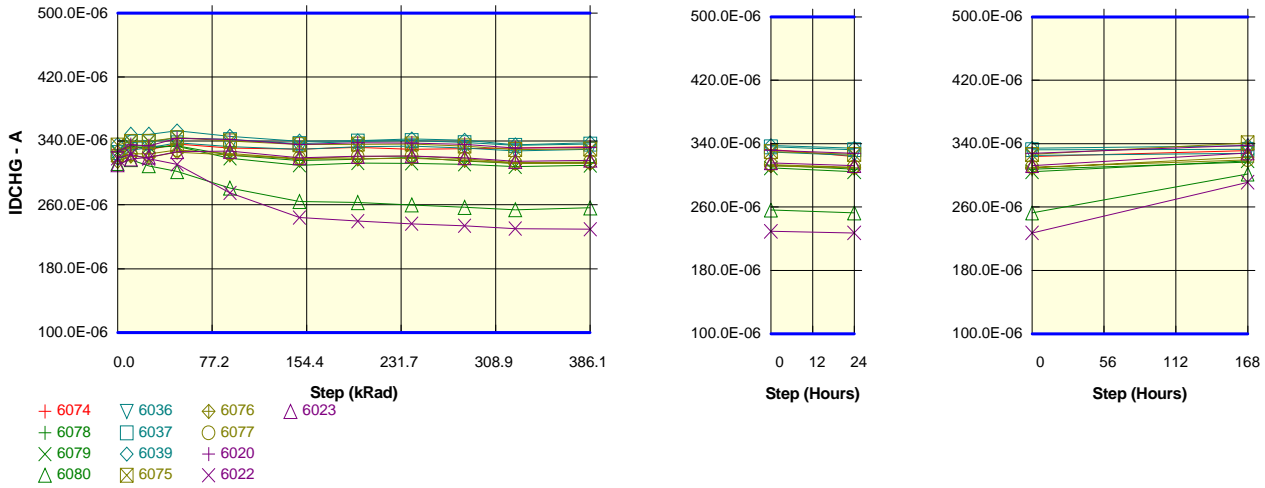
Measurements

ICHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.8E-06	14.0E-06	13.8E-06	14.2E-06	13.9E-06	13.8E-06	14.0E-06	13.9E-06	13.9E-06	13.9E-06	14.1E-06	13.7E-06	14.0E-06
OFF TID samples													
6020	13.3E-06	13.6E-06	13.5E-06	13.9E-06	13.9E-06	13.8E-06	14.0E-06	14.3E-06	14.4E-06	14.3E-06	14.6E-06	14.4E-06	14.2E-06
6022	13.3E-06	13.9E-06	14.3E-06	15.2E-06	16.7E-06	17.0E-06	17.1E-06	17.4E-06	17.4E-06	17.2E-06	17.7E-06	17.3E-06	15.9E-06
6023	13.6E-06	13.7E-06	13.8E-06	14.1E-06	14.2E-06	13.9E-06	14.1E-06	14.4E-06	14.5E-06	14.4E-06	14.8E-06	14.6E-06	14.3E-06
Statistics													
Min	13.3E-06	13.6E-06	13.5E-06	13.9E-06	13.9E-06	13.8E-06	14.0E-06	14.3E-06	14.4E-06	14.3E-06	14.6E-06	14.4E-06	14.2E-06
Max	13.6E-06	13.9E-06	14.3E-06	15.2E-06	16.7E-06	17.0E-06	17.1E-06	17.4E-06	17.4E-06	17.2E-06	17.7E-06	17.3E-06	15.9E-06
Average	13.4E-06	13.8E-06	13.9E-06	14.4E-06	15.0E-06	14.9E-06	15.1E-06	15.4E-06	15.4E-06	15.3E-06	15.7E-06	15.4E-06	14.8E-06
Sigma	138.0E-09	114.0E-09	328.7E-09	580.0E-09	1.2E-06	1.5E-06	1.4E-06	1.5E-06	1.4E-06	1.3E-06	1.4E-06	1.3E-06	785.7E-09

Drift Calculation

ICHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	278.0E-09	148.0E-09	568.0E-09	598.0E-09	444.0E-09	670.0E-09	914.0E-09	1.0E-06	942.0E-09	1.3E-06	1.1E-06	884.0E-09
6022	-	642.0E-09	1.0E-06	2.0E-06	3.5E-06	3.7E-06	3.9E-06	4.2E-06	4.1E-06	3.9E-06	4.5E-06	4.0E-06	2.7E-06
6023	-	154.0E-09	190.0E-09	512.0E-09	620.0E-09	344.0E-09	556.0E-09	792.0E-09	876.0E-09	816.0E-09	1.2E-06	1.0E-06	756.0E-09
Average	-	358.0E-09	455.3E-09	1.0E-06	1.6E-06	1.5E-06	1.7E-06	2.0E-06	2.0E-06	1.9E-06	2.3E-06	2.1E-06	1.4E-06
Sigma	-	207.1E-09	405.3E-09	672.6E-09	1.3E-06	1.6E-06	1.5E-06	1.6E-06	1.5E-06	1.4E-06	1.5E-06	1.4E-06	883.1E-09

Parameter : Discharge Current : IDCHG
 Test conditions : Soft Start Voltage = 2.5V
 Unit : A
 Spec Limit Min : 100.0E-06
 Spec Limit Max : 500.0E-06
 Spec limits are represented in bold lines on the graphic.



Measurements

IDCHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	329.4E-06	333.3E-06	329.2E-06	336.0E-06	331.2E-06	329.7E-06	332.0E-06	329.6E-06	330.5E-06	331.0E-06	332.6E-06	323.9E-06	331.3E-06
ON PROTON samples													
6078	325.6E-06	333.1E-06	331.0E-06	334.1E-06	322.0E-06	315.5E-06	317.2E-06	319.3E-06	314.9E-06	312.1E-06	313.1E-06	307.9E-06	316.6E-06
6079	326.0E-06	334.2E-06	333.3E-06	333.1E-06	318.3E-06	309.5E-06	312.3E-06	312.1E-06	310.8E-06	307.8E-06	309.4E-06	304.6E-06	318.4E-06
6080	311.8E-06	316.5E-06	309.0E-06	301.7E-06	281.0E-06	264.2E-06	262.9E-06	259.8E-06	256.8E-06	253.9E-06	256.2E-06	252.8E-06	301.7E-06
Statistics													
Min	311.8E-06	316.5E-06	309.0E-06	301.7E-06	281.0E-06	264.2E-06	262.9E-06	259.8E-06	256.8E-06	253.9E-06	256.2E-06	252.8E-06	301.7E-06
Max	326.0E-06	334.2E-06	333.3E-06	334.1E-06	322.0E-06	315.5E-06	317.2E-06	319.3E-06	314.9E-06	312.1E-06	313.1E-06	307.9E-06	318.4E-06
Average	321.1E-06	327.9E-06	324.4E-06	323.0E-06	307.1E-06	296.4E-06	297.5E-06	297.1E-06	294.2E-06	291.3E-06	292.9E-06	288.4E-06	312.3E-06
Sigma	6.6E-06	8.1E-06	11.0E-06	15.1E-06	18.5E-06	22.9E-06	24.5E-06	26.5E-06	26.5E-06	26.5E-06	26.0E-06	25.2E-06	7.5E-06

Drift Calculation

IDCHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	7.5E-06	5.5E-06	8.5E-06	-3.5E-06	-10.1E-06	-8.4E-06	-6.3E-06	-10.7E-06	-13.5E-06	-12.5E-06	-17.7E-06	-8.9E-06
6079	-	8.2E-06	7.3E-06	7.2E-06	-7.7E-06	-16.4E-06	-13.6E-06	-13.8E-06	-15.2E-06	-18.2E-06	-16.6E-06	-21.4E-06	-7.5E-06
6080	-	4.7E-06	-2.8E-06	-10.1E-06	-30.8E-06	-47.6E-06	-48.9E-06	-52.0E-06	-55.0E-06	-57.9E-06	-55.6E-06	-59.0E-06	-10.1E-06
Average	-	6.8E-06	3.3E-06	1.8E-06	-14.0E-06	-24.7E-06	-23.6E-06	-24.0E-06	-27.0E-06	-29.9E-06	-28.2E-06	-32.7E-06	-8.9E-06
Sigma	-	1.5E-06	4.4E-06	8.5E-06	12.0E-06	16.4E-06	18.0E-06	20.0E-06	19.9E-06	19.9E-06	19.4E-06	18.7E-06	1.0E-06

Measurements

IDCHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	329.4E-06	333.3E-06	329.2E-06	336.0E-06	331.2E-06	329.7E-06	332.0E-06	329.6E-06	330.5E-06	331.0E-06	332.6E-06	323.9E-06	331.3E-06
ON TID samples													
6036	317.2E-06	329.0E-06	331.4E-06	337.6E-06	333.1E-06	329.6E-06	332.8E-06	333.5E-06	331.1E-06	327.7E-06	329.5E-06	325.4E-06	327.9E-06
6037	325.4E-06	338.5E-06	339.0E-06	343.8E-06	341.8E-06	336.5E-06	339.8E-06	340.5E-06	337.9E-06	334.4E-06	336.0E-06	332.5E-06	332.8E-06
6039	335.8E-06	348.3E-06	348.4E-06	352.6E-06	345.8E-06	339.8E-06	340.2E-06	342.4E-06	340.9E-06	335.2E-06	337.6E-06	334.2E-06	337.5E-06
Statistics													
Min	317.2E-06	329.0E-06	331.4E-06	337.6E-06	333.1E-06	329.6E-06	332.8E-06	333.5E-06	331.1E-06	327.7E-06	329.5E-06	325.4E-06	327.9E-06
Max	335.8E-06	348.3E-06	348.4E-06	352.6E-06	345.8E-06	339.8E-06	340.2E-06	342.4E-06	340.9E-06	335.2E-06	337.6E-06	334.2E-06	337.5E-06
Average	326.1E-06	338.6E-06	339.6E-06	344.7E-06	340.2E-06	335.3E-06	337.6E-06	338.8E-06	336.7E-06	332.4E-06	334.4E-06	330.7E-06	332.7E-06
Sigma	7.6E-06	7.9E-06	6.9E-06	6.1E-06	5.3E-06	4.2E-06	3.4E-06	3.8E-06	4.1E-06	3.4E-06	3.5E-06	3.8E-06	3.9E-06

Drift Calculation

IDCHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	11.8E-06	14.2E-06	20.4E-06	15.9E-06	12.4E-06	15.6E-06	16.3E-06	13.9E-06	10.5E-06	12.3E-06	8.2E-06	10.7E-06
6037	-	13.1E-06	13.6E-06	18.4E-06	16.4E-06	11.1E-06	14.4E-06	15.1E-06	12.5E-06	9.1E-06	10.6E-06	7.1E-06	7.5E-06
6039	-	12.5E-06	12.6E-06	16.8E-06	10.0E-06	4.0E-06	4.4E-06	6.6E-06	5.2E-06	-580.0E-09	1.8E-06	-1.5E-06	1.7E-06
Average	-	12.5E-06	13.5E-06	18.6E-06	14.1E-06	9.2E-06	11.5E-06	12.7E-06	10.5E-06	6.3E-06	8.3E-06	4.6E-06	6.6E-06
Sigma	-	539.6E-09	656.5E-09	1.5E-06	2.9E-06	3.7E-06	5.0E-06	4.3E-06	3.8E-06	4.9E-06	4.6E-06	4.3E-06	3.7E-06

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

IDCHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	329.4E-06	333.3E-06	329.2E-06	336.0E-06	331.2E-06	329.7E-06	332.0E-06	329.6E-06	330.5E-06	331.0E-06	332.6E-06	323.9E-06	331.3E-06
OFF PROTON samples													
6075	334.9E-06	339.2E-06	339.5E-06	344.1E-06	340.0E-06	335.5E-06	336.0E-06	336.2E-06	333.8E-06	329.2E-06	330.0E-06	326.5E-06	341.0E-06
6076	314.5E-06	320.9E-06	319.5E-06	326.0E-06	322.6E-06	317.3E-06	317.6E-06	318.3E-06	315.9E-06	312.0E-06	312.0E-06	309.5E-06	323.3E-06
6077	320.1E-06	324.0E-06	323.9E-06	328.9E-06	324.5E-06	318.0E-06	320.3E-06	321.1E-06	317.8E-06	312.9E-06	313.6E-06	310.4E-06	319.7E-06
Statistics													
Min	314.5E-06	320.9E-06	319.5E-06	326.0E-06	322.6E-06	317.3E-06	317.6E-06	318.3E-06	315.9E-06	312.0E-06	312.0E-06	309.5E-06	319.7E-06
Max	334.9E-06	339.2E-06	339.5E-06	344.1E-06	340.0E-06	335.5E-06	336.0E-06	336.2E-06	333.8E-06	329.2E-06	330.0E-06	326.5E-06	341.0E-06
Average	323.2E-06	328.1E-06	327.6E-06	333.0E-06	329.0E-06	323.6E-06	324.6E-06	325.2E-06	322.5E-06	318.0E-06	318.6E-06	315.5E-06	328.0E-06
Sigma	8.6E-06	8.0E-06	8.6E-06	7.9E-06	7.8E-06	8.4E-06	8.1E-06	7.9E-06	8.0E-06	7.9E-06	8.1E-06	7.8E-06	9.3E-06

Drift Calculation

IDCHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	4.3E-06	4.6E-06	9.2E-06	5.1E-06	620.0E-09	1.1E-06	1.3E-06	-1.1E-06	-5.7E-06	-4.9E-06	-8.4E-06	6.1E-06
6076	-	6.4E-06	5.0E-06	11.5E-06	8.1E-06	2.8E-06	3.1E-06	3.8E-06	1.4E-06	-2.5E-06	-2.5E-06	-5.0E-06	8.8E-06
6077	-	3.9E-06	3.8E-06	8.8E-06	4.4E-06	-2.0E-06	260.0E-09	1.1E-06	-2.3E-06	-7.2E-06	-6.4E-06	-9.7E-06	-340.0E-09
Average	-	4.9E-06	4.5E-06	9.8E-06	5.9E-06	446.7E-09	1.5E-06	2.1E-06	-680.0E-09	-5.1E-06	-4.6E-06	-7.7E-06	4.8E-06
Sigma	-	1.1E-06	502.8E-09	1.2E-06	1.6E-06	2.0E-06	1.2E-06	1.2E-06	1.5E-06	2.0E-06	1.6E-06	2.0E-06	3.8E-06

Measurements

IDCHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	329.4E-06	333.3E-06	329.2E-06	336.0E-06	331.2E-06	329.7E-06	332.0E-06	329.6E-06	330.5E-06	331.0E-06	332.6E-06	323.9E-06	331.3E-06
OFF TID samples													
6020	326.5E-06	335.3E-06	334.0E-06	343.2E-06	341.8E-06	335.7E-06	337.6E-06	337.6E-06	336.0E-06	331.0E-06	331.7E-06	328.0E-06	338.1E-06
6022	318.3E-06	323.0E-06	317.7E-06	310.7E-06	275.0E-06	244.2E-06	239.7E-06	236.4E-06	233.7E-06	230.4E-06	229.5E-06	227.5E-06	291.4E-06
6023	310.2E-06	317.4E-06	319.7E-06	326.6E-06	327.1E-06	319.1E-06	320.8E-06	321.3E-06	319.1E-06	314.5E-06	315.9E-06	312.5E-06	328.3E-06
Statistics													
Min	310.2E-06	317.4E-06	317.7E-06	310.7E-06	275.0E-06	244.2E-06	239.7E-06	236.4E-06	233.7E-06	230.4E-06	229.5E-06	227.5E-06	291.4E-06
Max	326.5E-06	335.3E-06	334.0E-06	343.2E-06	341.8E-06	335.7E-06	337.6E-06	337.6E-06	336.0E-06	331.0E-06	331.7E-06	328.0E-06	338.1E-06
Average	318.4E-06	325.3E-06	323.8E-06	326.9E-06	314.6E-06	299.7E-06	299.4E-06	298.4E-06	296.3E-06	291.9E-06	292.4E-06	289.3E-06	319.3E-06
Sigma	6.7E-06	7.5E-06	7.3E-06	13.3E-06	28.7E-06	39.8E-06	42.8E-06	44.4E-06	44.7E-06	44.1E-06	44.9E-06	44.2E-06	20.1E-06

Drift Calculation

IDCHG	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	8.8E-06	7.5E-06	16.7E-06	15.3E-06	9.1E-06	11.1E-06	11.0E-06	9.4E-06	4.5E-06	5.2E-06	1.5E-06	11.5E-06
6022	-	4.7E-06	-620.0E-09	-7.6E-06	-43.4E-06	-74.1E-06	-78.7E-06	-81.9E-06	-84.6E-06	-88.0E-06	-88.8E-06	-90.9E-06	-26.9E-06
6023	-	7.2E-06	9.5E-06	16.4E-06	16.9E-06	8.9E-06	10.6E-06	11.1E-06	8.9E-06	4.3E-06	5.7E-06	2.2E-06	18.1E-06
Average	-	6.9E-06	5.5E-06	8.5E-06	-3.7E-06	-18.7E-06	-19.0E-06	-19.9E-06	-22.1E-06	-26.4E-06	-26.0E-06	-29.0E-06	913.3E-09
Sigma	-	1.7E-06	4.4E-06	11.4E-06	28.0E-06	39.2E-06	42.2E-06	43.8E-06	44.2E-06	43.5E-06	44.4E-06	43.7E-06	19.8E-06

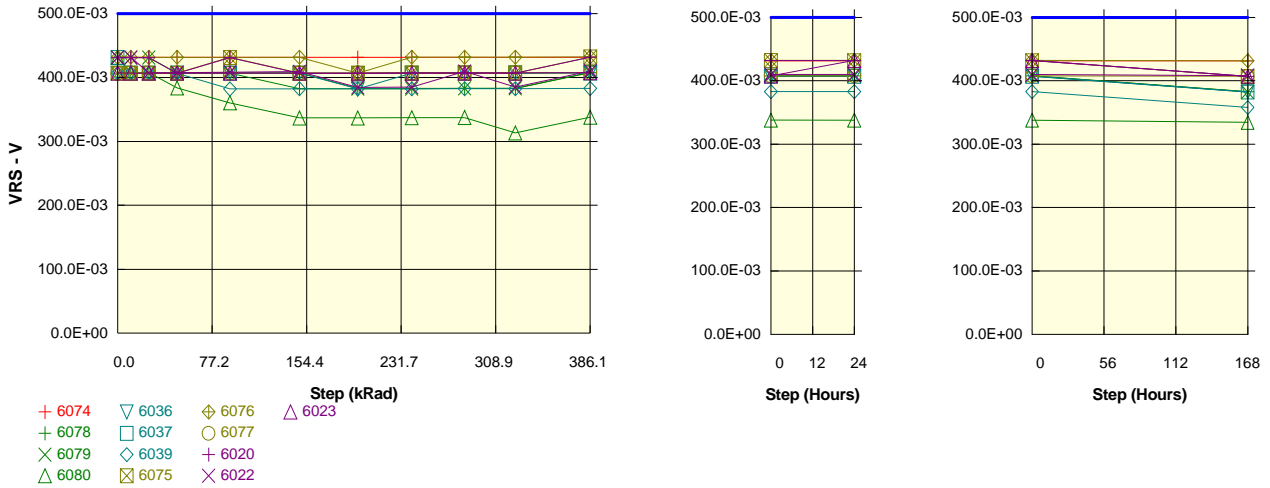
Parameter : Restart Threshold : VRS

Test conditions :

Unit : V

Spec Limit Max : 500.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

VRS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	431.6E-03	431.5E-03	431.5E-03	431.5E-03	431.6E-03	431.5E-03	431.4E-03	431.5E-03	431.5E-03	431.5E-03	431.8E-03	431.7E-03	431.5E-03
ON PROTON samples													
6078	406.8E-03	406.8E-03	406.8E-03	406.9E-03	407.1E-03	382.7E-03	382.6E-03	382.8E-03	382.9E-03	382.9E-03	407.8E-03	407.8E-03	382.7E-03
6079	431.3E-03	431.3E-03	431.4E-03	406.9E-03	407.3E-03	407.5E-03	382.9E-03	383.1E-03	383.2E-03	383.2E-03	408.0E-03	408.0E-03	382.7E-03
6080	431.6E-03	407.3E-03	407.7E-03	383.8E-03	360.5E-03	336.9E-03	336.8E-03	337.2E-03	337.4E-03	313.3E-03	338.0E-03	337.9E-03	334.5E-03
Statistics													
Min	406.8E-03	406.8E-03	406.8E-03	383.8E-03	360.5E-03	336.9E-03	336.8E-03	337.2E-03	337.4E-03	313.3E-03	338.0E-03	337.9E-03	334.5E-03
Max	431.6E-03	431.3E-03	431.4E-03	406.9E-03	407.3E-03	407.5E-03	382.9E-03	383.1E-03	383.2E-03	383.2E-03	408.0E-03	408.0E-03	382.7E-03
Average	423.2E-03	415.1E-03	415.3E-03	399.2E-03	391.6E-03	375.7E-03	367.4E-03	367.7E-03	367.8E-03	359.8E-03	384.6E-03	384.6E-03	366.6E-03
Sigma	11.6E-03	11.4E-03	11.4E-03	10.9E-03	22.0E-03	29.2E-03	21.7E-03	21.6E-03	21.5E-03	32.9E-03	32.9E-03	33.0E-03	22.7E-03

Drift Calculation

VRS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	31.6E-06	65.0E-06	115.5E-06	346.1E-06	-24.1E-03	-24.2E-03	-24.0E-03	-23.9E-03	-23.9E-03	997.5E-06	995.6E-06	-24.0E-03
6079	-	38.6E-06	103.1E-06	-24.4E-03	-24.0E-03	-23.8E-03	-48.4E-03	-48.2E-03	-48.0E-03	-48.1E-03	-23.2E-03	-23.2E-03	-48.6E-03
6080	-	-24.3E-03	-23.9E-03	-47.8E-03	-71.2E-03	-94.8E-03	-94.8E-03	-94.5E-03	-94.3E-03	-118.3E-03	-93.6E-03	-93.7E-03	-97.2E-03
Average	-	-8.1E-03	-7.9E-03	-24.0E-03	-31.6E-03	-47.5E-03	-55.8E-03	-55.5E-03	-55.4E-03	-63.4E-03	-38.6E-03	-38.6E-03	-56.6E-03
Sigma	-	11.5E-03	11.3E-03	19.6E-03	29.7E-03	33.4E-03	29.3E-03	29.2E-03	29.2E-03	40.1E-03	40.1E-03	40.2E-03	30.4E-03

Measurements

VRS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	431.6E-03	431.5E-03	431.5E-03	431.5E-03	431.6E-03	431.5E-03	431.4E-03	431.5E-03	431.5E-03	431.5E-03	431.8E-03	431.7E-03	431.5E-03
ON TID samples													
6036	406.9E-03	406.8E-03	406.8E-03	406.8E-03	406.8E-03	406.8E-03	382.2E-03	406.9E-03	407.0E-03	407.0E-03	407.4E-03	407.4E-03	382.4E-03
6037	431.3E-03	406.7E-03	406.6E-03	406.6E-03	406.7E-03	406.7E-03	406.6E-03	406.8E-03	406.9E-03	406.9E-03	407.2E-03	407.2E-03	382.4E-03
6039	406.6E-03	406.6E-03	406.6E-03	406.6E-03	382.3E-03	382.3E-03	382.3E-03	382.4E-03	382.6E-03	382.6E-03	382.9E-03	383.0E-03	358.0E-03
Statistics													
Min	406.6E-03	406.6E-03	406.6E-03	406.6E-03	382.3E-03	382.3E-03	382.2E-03	382.4E-03	382.6E-03	382.6E-03	382.9E-03	383.0E-03	358.0E-03
Max	431.3E-03	406.8E-03	406.8E-03	406.8E-03	406.8E-03	406.8E-03	406.6E-03	406.9E-03	407.0E-03	407.0E-03	407.4E-03	407.4E-03	382.4E-03
Average	414.9E-03	406.7E-03	406.7E-03	406.7E-03	398.6E-03	398.6E-03	390.4E-03	398.7E-03	398.8E-03	398.8E-03	399.2E-03	399.2E-03	374.3E-03
Sigma	11.6E-03	107.9E-06	83.2E-06	80.2E-06	11.5E-03	11.5E-03	11.5E-03	11.5E-03	11.5E-03	11.5E-03	11.5E-03	11.5E-03	11.5E-03

Drift Calculation

VRS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-54.7E-06	-78.2E-06	-97.6E-06	-58.5E-06	-49.8E-06	-24.7E-03	36.4E-06	131.2E-06	135.6E-06	475.5E-06	476.8E-06	-24.5E-03
6037	-	-24.7E-03	-24.7E-03	-24.7E-03	-24.6E-03	-24.6E-03	-24.7E-03	-24.5E-03	-24.4E-03	-24.4E-03	-24.1E-03	-24.1E-03	-49.0E-03
6039	-	-29.4E-06	19.3E-06	22.7E-06	-24.3E-03	-24.3E-03	-24.3E-03	-24.1E-03	-24.0E-03	-24.0E-03	-23.6E-03	-23.6E-03	-48.6E-03
Average	-	-8.2E-03	-8.2E-03	-8.3E-03	-16.3E-03	-16.3E-03	-24.6E-03	-16.2E-03	-16.1E-03	-16.1E-03	-15.8E-03	-15.8E-03	-40.7E-03
Sigma	-	11.6E-03	11.6E-03	11.6E-03	11.5E-03	11.5E-03	154.3E-06	11.5E-03	11.5E-03	11.5E-03	11.5E-03	11.5E-03	11.5E-03

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016	
	IS-1825ASRH					Intersil				Issue:	02	

Measurements

VRS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	431.6E-03	431.5E-03	431.5E-03	431.5E-03	431.6E-03	431.5E-03	431.4E-03	431.5E-03	431.5E-03	431.5E-03	431.8E-03	431.7E-03	431.5E-03
OFF PROTON samples													
6075	406.8E-03	406.7E-03	406.8E-03	406.8E-03	431.4E-03	406.9E-03	406.8E-03	407.0E-03	407.1E-03	407.1E-03	432.0E-03	432.0E-03	406.9E-03
6076	431.6E-03	431.6E-03	431.6E-03	431.6E-03	431.7E-03	431.7E-03	407.1E-03	431.8E-03	431.9E-03	431.9E-03	432.2E-03	432.2E-03	431.7E-03
6077	406.9E-03	407.0E-03	407.0E-03	407.0E-03	407.1E-03	407.1E-03	407.1E-03	407.3E-03	407.4E-03	407.4E-03	407.8E-03	407.8E-03	407.3E-03
Statistics													
Min	406.8E-03	406.7E-03	406.8E-03	406.8E-03	407.1E-03	406.9E-03	406.8E-03	407.0E-03	407.1E-03	407.1E-03	407.8E-03	407.8E-03	406.9E-03
Max	431.6E-03	431.6E-03	431.6E-03	431.6E-03	431.7E-03	431.7E-03	407.1E-03	431.8E-03	431.9E-03	431.9E-03	432.2E-03	432.2E-03	431.7E-03
Average	415.1E-03	415.1E-03	415.1E-03	415.1E-03	423.4E-03	415.2E-03	407.0E-03	415.3E-03	415.5E-03	415.5E-03	424.0E-03	424.0E-03	415.3E-03
Sigma	11.7E-03	11.7E-03	11.7E-03	11.7E-03	11.5E-03	11.7E-03	128.8E-06	11.6E-03	11.6E-03	11.6E-03	11.5E-03	11.5E-03	11.6E-03

Drift Calculation

VRS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-27.4E-06	-3.2E-06	-3.4E-06	24.7E-03	98.1E-06	27.1E-06	212.5E-06	337.7E-06	315.4E-06	25.2E-03	25.2E-03	96.9E-06
6076	-	-30.5E-06	-36.5E-06	-22.7E-06	72.4E-06	73.9E-06	-24.6E-03	176.9E-06	274.4E-06	269.8E-06	602.5E-06	599.4E-06	25.9E-06
6077	-	32.4E-06	72.9E-06	84.0E-06	178.8E-06	205.2E-06	141.1E-06	335.9E-06	457.2E-06	469.3E-06	841.3E-06	843.3E-06	355.6E-06
Average	-	-8.5E-06	11.0E-06	19.3E-06	8.3E-03	125.7E-06	-8.1E-03	241.8E-06	356.5E-06	351.5E-06	8.9E-03	8.9E-03	159.5E-06
Sigma	-	28.9E-06	45.8E-06	46.4E-06	11.6E-03	57.1E-06	11.6E-03	68.1E-06	75.8E-06	85.3E-06	11.6E-03	11.6E-03	141.7E-06

Measurements

VRS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	431.6E-03	431.5E-03	431.5E-03	431.5E-03	431.6E-03	431.5E-03	431.4E-03	431.5E-03	431.5E-03	431.5E-03	431.8E-03	431.7E-03	431.5E-03
OFF TID samples													
6020	431.3E-03	431.3E-03	431.3E-03	406.7E-03	431.3E-03	406.7E-03	406.7E-03	406.9E-03	406.9E-03	406.9E-03	431.9E-03	431.9E-03	406.8E-03
6022	431.5E-03	431.6E-03	407.2E-03	407.6E-03	408.7E-03	409.3E-03	384.8E-03	385.2E-03	409.6E-03	385.2E-03	410.1E-03	410.1E-03	408.2E-03
6023	407.2E-03	407.1E-03	407.1E-03	407.0E-03	407.1E-03	407.1E-03	407.0E-03	407.2E-03	407.3E-03	407.3E-03	407.7E-03	432.2E-03	407.1E-03
Statistics													
Min	407.2E-03	407.1E-03	407.1E-03	406.7E-03	407.1E-03	406.7E-03	384.8E-03	385.2E-03	406.9E-03	385.2E-03	407.7E-03	410.1E-03	406.8E-03
Max	431.5E-03	431.6E-03	431.3E-03	407.6E-03	431.3E-03	409.3E-03	407.0E-03	407.2E-03	409.6E-03	407.3E-03	431.9E-03	432.2E-03	408.2E-03
Average	423.3E-03	423.3E-03	415.2E-03	407.1E-03	415.7E-03	407.7E-03	399.5E-03	399.7E-03	408.0E-03	399.8E-03	416.6E-03	424.7E-03	407.4E-03
Sigma	11.4E-03	11.5E-03	11.4E-03	383.6E-06	11.1E-03	1.1E-03	10.4E-03	10.3E-03	1.2E-03	10.3E-03	10.9E-03	10.4E-03	580.6E-06

Drift Calculation

VRS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-51.4E-06	-60.7E-06	-24.7E-03	7.0E-06	-24.6E-03	-24.7E-03	-24.5E-03	-24.4E-03	-24.4E-03	527.5E-06	526.8E-06	-24.5E-03
6022	-	118.8E-06	-24.2E-03	-23.9E-03	-22.7E-03	-22.2E-03	-46.6E-03	-46.3E-03	-21.8E-03	-46.2E-03	-21.3E-03	-21.4E-03	-23.3E-03
6023	-	-80.3E-06	-101.1E-06	-116.4E-06	-46.7E-06	-46.1E-06	-122.9E-06	55.5E-06	176.1E-06	163.5E-06	567.8E-06	25.1E-03	-52.8E-06
Average	-	-4.3E-06	-8.1E-03	-16.2E-03	-7.6E-03	-15.6E-03	-23.8E-03	-23.6E-03	-15.3E-03	-23.5E-03	-6.7E-03	1.4E-03	-15.9E-03
Sigma	-	87.9E-06	11.4E-03	11.4E-03	10.7E-03	11.0E-03	19.0E-03	18.9E-03	11.0E-03	18.9E-03	10.3E-03	19.0E-03	11.2E-03

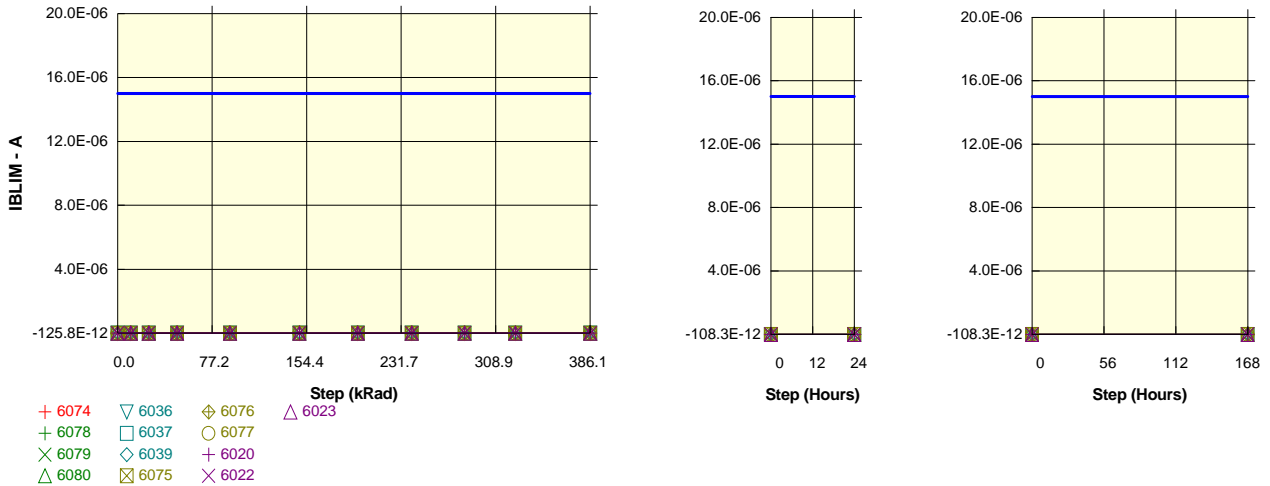
Parameter : Ilim Bias Current : IBLIMVIN=0V

Test conditions :

Unit : A

Spec Limit Max : 15.0E-06

Spec limits are represented in bold lines on the graphic.



Measurements

IBLIMVIN=0V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-6.0E-12	-5.7E-12	-6.1E-12	-5.2E-12	-5.1E-12	-6.8E-12	-5.8E-12	-3.9E-12	-4.9E-12	-3.4E-12	-3.6E-12	-5.7E-12	-5.6E-12
ON_PROTON samples													
6078	-9.1E-12	-7.8E-12	-9.7E-12	-9.7E-12	-14.3E-12	-19.8E-12	-18.1E-12	-15.8E-12	-19.0E-12	-20.1E-12	-16.7E-12	-19.5E-12	-5.1E-12
6079	-13.0E-12	-11.4E-12	-14.1E-12	-14.2E-12	-22.4E-12	-32.5E-12	-26.5E-12	-27.1E-12	-27.2E-12	-28.6E-12	-21.6E-12	-28.4E-12	-9.5E-12
6080	-25.9E-12	-23.2E-12	-31.3E-12	-30.2E-12	-44.2E-12	-75.7E-12	-63.5E-12	-61.7E-12	-61.9E-12	-69.2E-12	-46.3E-12	-61.5E-12	-15.3E-12
Statistics													
Min	-25.9E-12	-23.2E-12	-31.3E-12	-30.2E-12	-44.2E-12	-75.7E-12	-63.5E-12	-61.7E-12	-61.9E-12	-69.2E-12	-46.3E-12	-61.5E-12	-15.3E-12
Max	-9.1E-12	-7.8E-12	-9.7E-12	-9.7E-12	-14.3E-12	-19.8E-12	-18.1E-12	-15.8E-12	-19.0E-12	-20.1E-12	-16.7E-12	-19.5E-12	-5.1E-12
Average	-16.0E-12	-14.1E-12	-18.4E-12	-18.0E-12	-27.0E-12	-42.7E-12	-36.0E-12	-34.9E-12	-36.0E-12	-39.3E-12	-28.2E-12	-36.5E-12	-10.0E-12
Sigma	7.2E-12	6.6E-12	9.3E-12	8.8E-12	12.6E-12	23.9E-12	19.7E-12	19.6E-12	18.6E-12	21.4E-12	12.9E-12	18.1E-12	4.2E-12

Drift Calculation

IBLIMVIN=0V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	1.4E-12	-560.0E-15	-540.0E-15	-5.2E-12	-10.7E-12	-9.0E-12	-6.6E-12	-9.8E-12	-10.9E-12	-7.5E-12	-10.4E-12	4.1E-12
6079	-	1.6E-12	-1.2E-12	-1.3E-12	-9.4E-12	-19.5E-12	-13.5E-12	-14.1E-12	-14.2E-12	-15.7E-12	-8.6E-12	-15.5E-12	3.5E-12
6080	-	2.7E-12	-5.4E-12	-4.2E-12	-18.3E-12	-49.8E-12	-37.6E-12	-35.8E-12	-36.0E-12	-43.3E-12	-20.3E-12	-35.6E-12	10.6E-12
Average	-	1.9E-12	-2.4E-12	-2.0E-12	-11.0E-12	-26.7E-12	-20.0E-12	-18.9E-12	-20.0E-12	-23.3E-12	-12.2E-12	-20.5E-12	6.1E-12
Sigma	-	602.0E-15	2.2E-12	1.6E-12	5.4E-12	16.7E-12	12.6E-12	12.4E-12	11.4E-12	14.3E-12	5.8E-12	10.9E-12	3.2E-12

Measurements

IBLIMVIN=0V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-6.0E-12	-5.7E-12	-6.1E-12	-5.2E-12	-5.1E-12	-6.8E-12	-5.8E-12	-3.9E-12	-4.9E-12	-3.4E-12	-3.6E-12	-5.7E-12	-5.6E-12
ON_TID samples													
6036	-6.5E-12	-7.1E-12	-8.0E-12	-5.9E-12	-10.4E-12	-13.5E-12	-11.3E-12	-11.3E-12	-12.1E-12	-15.1E-12	-12.0E-12	-12.4E-12	-7.4E-12
6037	-6.9E-12	-6.5E-12	-8.3E-12	-8.3E-12	-10.2E-12	-14.8E-12	-12.5E-12	-12.2E-12	-12.1E-12	-13.8E-12	-11.5E-12	-13.4E-12	-5.5E-12
6039	-12.3E-12	-11.7E-12	-13.7E-12	-13.3E-12	-18.3E-12	-24.9E-12	-24.7E-12	-21.4E-12	-21.7E-12	-27.5E-12	-21.7E-12	-22.8E-12	-9.5E-12
Statistics													
Min	-12.3E-12	-11.7E-12	-13.7E-12	-13.3E-12	-18.3E-12	-24.9E-12	-24.7E-12	-21.4E-12	-21.7E-12	-27.5E-12	-21.7E-12	-22.8E-12	-9.5E-12
Max	-6.5E-12	-6.5E-12	-8.0E-12	-5.9E-12	-10.2E-12	-13.5E-12	-11.3E-12	-11.3E-12	-12.1E-12	-13.8E-12	-11.5E-12	-12.4E-12	-5.5E-12
Average	-8.6E-12	-8.4E-12	-10.0E-12	-9.1E-12	-13.0E-12	-17.7E-12	-16.2E-12	-15.0E-12	-15.3E-12	-18.8E-12	-15.1E-12	-16.2E-12	-7.5E-12
Sigma	2.7E-12	2.3E-12	2.6E-12	3.1E-12	3.8E-12	5.1E-12	6.1E-12	4.6E-12	4.5E-12	6.2E-12	4.7E-12	4.7E-12	1.7E-12

Drift Calculation

IBLIMVIN=0V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	-560.0E-15	-1.5E-12	640.0E-15	-3.9E-12	-7.0E-12	-4.8E-12	-4.8E-12	-5.6E-12	-8.6E-12	-5.5E-12	-5.9E-12	-920.0E-15
6037	-	420.0E-15	-1.4E-12	-1.4E-12	-3.3E-12	-7.9E-12	-5.6E-12	-5.3E-12	-5.2E-12	-7.0E-12	-4.7E-12	-6.5E-12	1.4E-12
6039	-	640.0E-15	-1.3E-12	-940.0E-15	-6.0E-12	-12.5E-12	-12.4E-12	-9.1E-12	-9.4E-12	-15.1E-12	-9.3E-12	-10.5E-12	2.8E-12
Average	-	166.7E-15	-1.4E-12	-566.7E-15	-4.4E-12	-9.2E-12	-7.6E-12	-6.4E-12	-6.8E-12	-10.2E-12	-6.5E-12	-7.6E-12	1.1E-12
Sigma	-	521.6E-15	65.3E-15	873.7E-15	1.1E-12	2.4E-12	3.4E-12	1.9E-12	1.9E-12	3.5E-12	2.0E-12	2.0E-12	1.5E-12

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

IBLIMVIN=0V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-6.0E-12	-5.7E-12	-6.1E-12	-5.2E-12	-5.1E-12	-6.8E-12	-5.8E-12	-3.9E-12	-4.9E-12	-3.4E-12	-3.6E-12	-5.7E-12	-5.6E-12
OFF PROTON samples													
6075	-9.8E-12	-11.3E-12	-14.0E-12	-13.2E-12	-19.3E-12	-30.4E-12	-30.1E-12	-29.1E-12	-33.0E-12	-36.9E-12	-33.2E-12	-37.4E-12	-16.8E-12
6076	-21.3E-12	-21.6E-12	-27.1E-12	-23.1E-12	-32.4E-12	-45.9E-12	-46.6E-12	-42.6E-12	-45.6E-12	-53.5E-12	-47.1E-12	-53.9E-12	-31.3E-12
6077	-13.2E-12	-17.5E-12	-22.3E-12	-20.8E-12	-31.6E-12	-48.1E-12	-45.4E-12	-42.3E-12	-46.6E-12	-59.0E-12	-48.9E-12	-58.2E-12	-25.1E-12
Statistics													
Min	-21.3E-12	-21.6E-12	-27.1E-12	-23.1E-12	-32.4E-12	-48.1E-12	-46.6E-12	-42.6E-12	-46.6E-12	-59.0E-12	-48.9E-12	-58.2E-12	-31.3E-12
Max	-9.8E-12	-11.3E-12	-14.0E-12	-13.2E-12	-19.3E-12	-30.4E-12	-30.1E-12	-29.1E-12	-33.0E-12	-36.9E-12	-33.2E-12	-37.4E-12	-16.8E-12
Average	-14.8E-12	-16.8E-12	-21.1E-12	-19.1E-12	-27.8E-12	-41.5E-12	-40.7E-12	-38.0E-12	-41.8E-12	-49.8E-12	-43.1E-12	-49.8E-12	-24.4E-12
Sigma	4.8E-12	4.2E-12	5.4E-12	4.2E-12	6.0E-12	7.9E-12	7.5E-12	6.3E-12	6.2E-12	9.4E-12	7.0E-12	9.0E-12	5.9E-12

Drift Calculation

IBLIMVIN=0V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-1.5E-12	-4.3E-12	-3.5E-12	-9.5E-12	-20.6E-12	-20.3E-12	-19.4E-12	-23.3E-12	-27.2E-12	-23.4E-12	-27.6E-12	-7.0E-12
6076	-	-300.0E-15	-5.8E-12	-1.8E-12	-11.1E-12	-24.6E-12	-25.3E-12	-21.3E-12	-24.3E-12	-32.2E-12	-25.8E-12	-32.6E-12	-9.9E-12
6077	-	-4.3E-12	-9.1E-12	-7.7E-12	-18.4E-12	-34.9E-12	-32.3E-12	-29.1E-12	-33.5E-12	-45.8E-12	-35.7E-12	-45.0E-12	-11.9E-12
Average	-	-2.0E-12	-6.4E-12	-4.3E-12	-13.0E-12	-26.7E-12	-25.9E-12	-23.3E-12	-27.0E-12	-35.1E-12	-28.3E-12	-35.1E-12	-9.6E-12
Sigma	-	1.7E-12	2.0E-12	2.5E-12	3.9E-12	6.0E-12	4.9E-12	4.2E-12	4.6E-12	7.9E-12	5.3E-12	7.3E-12	2.0E-12

Measurements

IBLIMVIN=0V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	-6.0E-12	-5.7E-12	-6.1E-12	-5.2E-12	-5.1E-12	-6.8E-12	-5.8E-12	-3.9E-12	-4.9E-12	-3.4E-12	-3.6E-12	-5.7E-12	-5.6E-12
OFF TID samples													
6020	-7.3E-12	-9.3E-12	-12.9E-12	-11.5E-12	-16.2E-12	-26.6E-12	-25.6E-12	-23.8E-12	-25.5E-12	-31.6E-12	-28.2E-12	-31.1E-12	-16.1E-12
6022	-7.5E-12	-20.9E-12	-38.5E-12	-45.0E-12	-74.6E-12	-125.8E-12	-113.7E-12	-91.0E-12	-98.2E-12	-114.0E-12	-80.6E-12	-108.3E-12	-26.5E-12
6023	-15.5E-12	-18.4E-12	-21.5E-12	-19.1E-12	-23.7E-12	-42.0E-12	-40.9E-12	-38.5E-12	-41.0E-12	-50.6E-12	-39.1E-12	-48.4E-12	-23.5E-12
Statistics													
Min	-15.5E-12	-20.9E-12	-38.5E-12	-45.0E-12	-74.6E-12	-125.8E-12	-113.7E-12	-91.0E-12	-98.2E-12	-114.0E-12	-80.6E-12	-108.3E-12	-26.5E-12
Max	-7.3E-12	-9.3E-12	-12.9E-12	-11.5E-12	-16.2E-12	-26.6E-12	-25.6E-12	-23.8E-12	-25.5E-12	-31.6E-12	-28.2E-12	-31.1E-12	-16.1E-12
Average	-10.1E-12	-16.2E-12	-24.3E-12	-25.2E-12	-38.1E-12	-64.8E-12	-60.1E-12	-51.1E-12	-54.9E-12	-65.4E-12	-49.3E-12	-62.6E-12	-22.0E-12
Sigma	3.8E-12	5.0E-12	10.6E-12	14.3E-12	25.9E-12	43.6E-12	38.5E-12	28.9E-12	31.3E-12	35.2E-12	22.6E-12	33.1E-12	4.3E-12

Drift Calculation

IBLIMVIN=0V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-2.0E-12	-5.6E-12	-4.2E-12	-8.8E-12	-19.3E-12	-18.2E-12	-16.4E-12	-18.1E-12	-24.3E-12	-20.9E-12	-23.7E-12	-8.8E-12
6022	-	-13.4E-12	-31.0E-12	-37.5E-12	-67.1E-12	-118.3E-12	-106.3E-12	-83.6E-12	-90.8E-12	-106.5E-12	-73.1E-12	-100.8E-12	-19.0E-12
6023	-	-2.9E-12	-6.0E-12	-3.6E-12	-8.2E-12	-26.5E-12	-25.4E-12	-23.0E-12	-25.5E-12	-35.1E-12	-23.6E-12	-32.9E-12	-8.0E-12
Average	-	-6.1E-12	-14.2E-12	-15.1E-12	-28.0E-12	-54.7E-12	-50.0E-12	-41.0E-12	-44.8E-12	-55.3E-12	-39.2E-12	-52.5E-12	-11.9E-12
Sigma	-	5.2E-12	11.9E-12	15.8E-12	27.6E-12	45.1E-12	39.9E-12	30.2E-12	32.6E-12	36.5E-12	24.0E-12	34.4E-12	5.0E-12

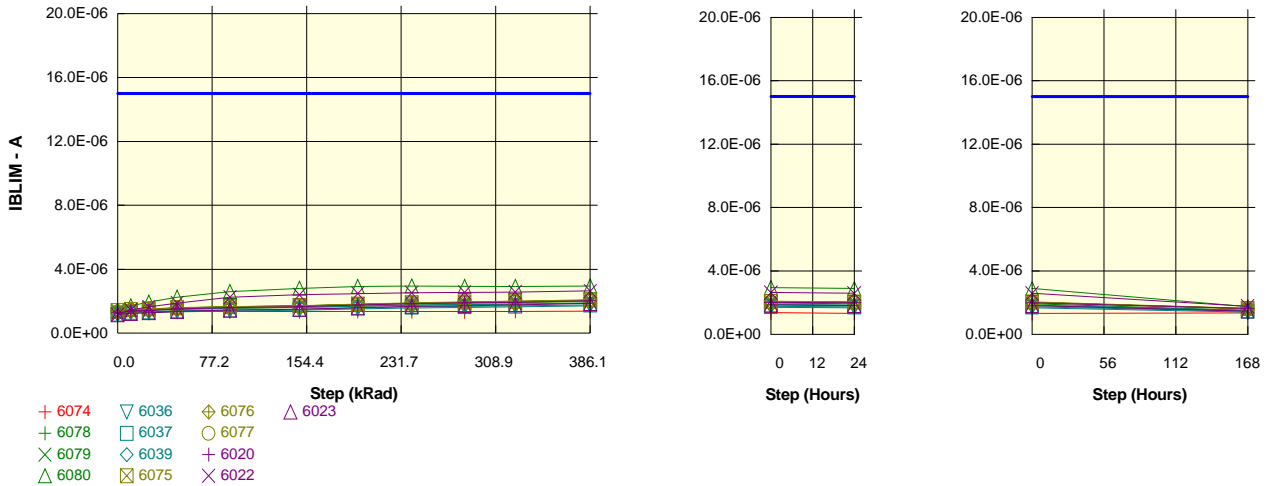
Parameter : Ilim Bias Current : IBLIMVIN=2V

Test conditions :

Unit : A

Spec Limit Max : 15.0E-06

Spec limits are represented in bold lines on the graphic.



Measurements

IBLIMVIN=2V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.3E-06	1.4E-06	1.3E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.3E-06	1.4E-06
ON PROTON samples													
6078	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.8E-06	1.8E-06	1.8E-06	1.9E-06	1.8E-06	1.5E-06
6079	1.3E-06	1.4E-06	1.5E-06	1.6E-06	1.7E-06	1.7E-06	1.8E-06	1.9E-06	1.9E-06	1.9E-06	2.0E-06	1.9E-06	1.5E-06
6080	1.4E-06	1.7E-06	1.9E-06	2.3E-06	2.6E-06	2.8E-06	2.9E-06	2.9E-06	2.9E-06	2.9E-06	3.0E-06	2.9E-06	1.7E-06
Statistics													
Min	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.8E-06	1.8E-06	1.8E-06	1.9E-06	1.8E-06	1.5E-06
Max	1.4E-06	1.7E-06	1.9E-06	2.3E-06	2.6E-06	2.8E-06	2.9E-06	2.9E-06	2.9E-06	2.9E-06	3.0E-06	2.9E-06	1.7E-06
Average	1.4E-06	1.5E-06	1.6E-06	1.8E-06	1.9E-06	2.0E-06	2.1E-06	2.2E-06	2.2E-06	2.2E-06	2.3E-06	2.2E-06	1.6E-06
Sigma	36.1E-09	140.2E-09	229.3E-09	338.0E-09	472.3E-09	543.0E-09	553.1E-09	539.7E-09	517.9E-09	498.2E-09	486.4E-09	482.9E-09	113.5E-09

Drift Calculation

IBLIMVIN=2V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	77.2E-09	109.0E-09	181.2E-09	234.4E-09	290.4E-09	374.8E-09	441.2E-09	463.4E-09	496.6E-09	558.8E-09	505.0E-09	182.0E-09
6079	-	106.0E-09	161.8E-09	244.4E-09	328.6E-09	384.6E-09	468.6E-09	519.8E-09	552.6E-09	579.6E-09	640.4E-09	596.0E-09	183.4E-09
6080	-	311.0E-09	542.6E-09	850.8E-09	1.2E-06	1.4E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06	1.6E-06	1.5E-06	347.0E-09
Average	-	164.7E-09	271.1E-09	425.5E-09	588.7E-09	694.9E-09	786.3E-09	835.9E-09	847.7E-09	864.0E-09	917.1E-09	865.3E-09	237.5E-09
Sigma	-	104.1E-09	193.2E-09	301.9E-09	436.2E-09	506.9E-09	517.0E-09	503.6E-09	481.7E-09	462.1E-09	450.3E-09	446.8E-09	77.5E-09

Measurements

IBLIMVIN=2V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.3E-06	1.4E-06	1.3E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.3E-06	1.4E-06
ON TID samples													
6036	1.1E-06	1.2E-06	1.3E-06	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.6E-06	1.7E-06	1.7E-06	1.4E-06
6037	1.2E-06	1.3E-06	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.7E-06	1.8E-06	1.7E-06	1.5E-06
6039	1.2E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.8E-06	1.8E-06	1.8E-06	1.9E-06	1.9E-06	1.5E-06
Statistics													
Min	1.1E-06	1.2E-06	1.3E-06	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.6E-06	1.7E-06	1.7E-06	1.4E-06
Max	1.2E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.8E-06	1.8E-06	1.8E-06	1.9E-06	1.9E-06	1.5E-06
Average	1.2E-06	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.5E-06	1.6E-06	1.7E-06	1.7E-06	1.7E-06	1.8E-06	1.8E-06	1.5E-06
Sigma	37.6E-09	55.6E-09	60.3E-09	64.6E-09	76.4E-09	79.3E-09	74.7E-09	74.7E-09	76.8E-09	71.8E-09	70.7E-09	72.3E-09	48.6E-09

Drift Calculation

IBLIMVIN=2V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	100.6E-09	136.4E-09	197.8E-09	232.2E-09	283.2E-09	369.6E-09	433.0E-09	467.2E-09	498.6E-09	565.6E-09	529.8E-09	256.4E-09
6037	-	124.0E-09	155.6E-09	214.8E-09	264.2E-09	309.4E-09	397.4E-09	457.8E-09	491.8E-09	523.8E-09	587.2E-09	554.8E-09	280.8E-09
6039	-	145.0E-09	191.4E-09	262.2E-09	326.0E-09	382.4E-09	458.8E-09	521.6E-09	560.4E-09	580.6E-09	644.6E-09	613.0E-09	284.0E-09
Average	-	123.2E-09	161.1E-09	224.9E-09	274.1E-09	325.0E-09	408.6E-09	470.8E-09	506.5E-09	534.3E-09	599.1E-09	565.9E-09	273.7E-09
Sigma	-	18.1E-09	22.8E-09	27.3E-09	38.9E-09	42.0E-09	37.3E-09	37.3E-09	39.4E-09	34.3E-09	33.3E-09	34.9E-09	12.3E-09

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

IBLIMVIN=2V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.3E-06	1.4E-06	1.3E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.3E-06	1.4E-06
OFF-PROTON samples													
6075	1.4E-06	1.5E-06	1.5E-06	1.6E-06	1.7E-06	1.7E-06	1.8E-06	1.9E-06	2.0E-06	2.0E-06	2.1E-06	2.1E-06	1.6E-06
6076	1.4E-06	1.5E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.8E-06	1.9E-06	1.9E-06	2.0E-06	2.1E-06	2.0E-06	1.6E-06
6077	1.3E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.8E-06	1.9E-06	1.9E-06	2.0E-06	2.0E-06	2.0E-06	1.6E-06
Statistics													
Min	1.3E-06	1.4E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.8E-06	1.9E-06	1.9E-06	2.0E-06	2.0E-06	2.0E-06	1.6E-06
Max	1.4E-06	1.5E-06	1.5E-06	1.6E-06	1.7E-06	1.7E-06	1.8E-06	1.9E-06	2.0E-06	2.0E-06	2.1E-06	2.1E-06	1.6E-06
Average	1.4E-06	1.5E-06	1.5E-06	1.6E-06	1.6E-06	1.7E-06	1.8E-06	1.9E-06	1.9E-06	2.0E-06	2.1E-06	2.0E-06	1.6E-06
Sigma	33.1E-09	15.5E-09	14.8E-09	10.3E-09	11.8E-09	14.5E-09	15.4E-09	13.8E-09	16.1E-09	16.5E-09	18.5E-09	18.4E-09	11.7E-09

Drift Calculation

IBLIMVIN=2V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	67.2E-09	110.0E-09	181.4E-09	249.4E-09	313.6E-09	411.6E-09	490.2E-09	547.2E-09	588.2E-09	669.6E-09	638.2E-09	224.2E-09
6076	-	68.4E-09	95.8E-09	178.8E-09	244.0E-09	303.6E-09	395.4E-09	477.6E-09	534.8E-09	579.8E-09	657.6E-09	629.2E-09	234.6E-09
6077	-	106.2E-09	153.4E-09	233.6E-09	298.0E-09	356.0E-09	454.4E-09	536.2E-09	585.4E-09	624.6E-09	701.2E-09	669.8E-09	274.0E-09
Average	-	80.6E-09	119.7E-09	197.9E-09	263.8E-09	324.4E-09	420.5E-09	501.3E-09	555.8E-09	597.5E-09	676.1E-09	645.7E-09	244.3E-09
Sigma	-	18.1E-09	24.5E-09	25.2E-09	24.3E-09	22.7E-09	24.9E-09	25.2E-09	21.5E-09	19.4E-09	18.4E-09	17.4E-09	21.4E-09

Measurements

IBLIMVIN=2V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.3E-06	1.4E-06	1.3E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.3E-06	1.4E-06
OFF-TID samples													
6020	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.7E-06	1.8E-06	1.8E-06	1.9E-06	1.9E-06	2.0E-06	2.0E-06	1.6E-06
6022	1.2E-06	1.5E-06	1.6E-06	1.9E-06	2.3E-06	2.4E-06	2.5E-06	2.5E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	1.8E-06
6023	1.2E-06	1.2E-06	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.7E-06	1.7E-06	1.8E-06	1.9E-06	1.8E-06	1.5E-06
Statistics													
Min	1.2E-06	1.2E-06	1.3E-06	1.4E-06	1.4E-06	1.5E-06	1.6E-06	1.7E-06	1.7E-06	1.8E-06	1.9E-06	1.8E-06	1.5E-06
Max	1.3E-06	1.5E-06	1.6E-06	1.9E-06	2.3E-06	2.4E-06	2.5E-06	2.5E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	1.8E-06
Average	1.2E-06	1.4E-06	1.4E-06	1.6E-06	1.8E-06	1.9E-06	1.9E-06	2.0E-06	2.1E-06	2.1E-06	2.2E-06	2.1E-06	1.6E-06
Sigma	53.9E-09	88.4E-09	147.3E-09	221.1E-09	349.9E-09	392.9E-09	380.4E-09	368.7E-09	354.2E-09	345.6E-09	335.7E-09	331.0E-09	124.7E-09

Drift Calculation

IBLIMVIN=2V	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	110.8E-09	142.2E-09	242.0E-09	320.2E-09	381.0E-09	484.0E-09	568.4E-09	621.2E-09	659.0E-09	744.8E-09	710.6E-09	363.2E-09
6022	-	288.0E-09	477.8E-09	727.2E-09	1.1E-06	1.2E-06	1.3E-06	1.4E-06	1.4E-06	1.4E-06	1.5E-06	1.4E-06	614.4E-09
6023	-	78.8E-09	122.4E-09	202.0E-09	286.8E-09	338.2E-09	433.4E-09	516.6E-09	568.4E-09	610.0E-09	697.6E-09	665.4E-09	311.2E-09
Average	-	159.2E-09	247.5E-09	390.4E-09	565.8E-09	652.3E-09	742.0E-09	817.3E-09	859.1E-09	892.9E-09	972.5E-09	936.0E-09	429.6E-09
Sigma	-	92.0E-09	163.1E-09	238.7E-09	371.2E-09	414.3E-09	401.2E-09	389.2E-09	374.4E-09	365.9E-09	356.0E-09	351.2E-09	132.4E-09

Parameter : Current Limit Threshold : Vlimit

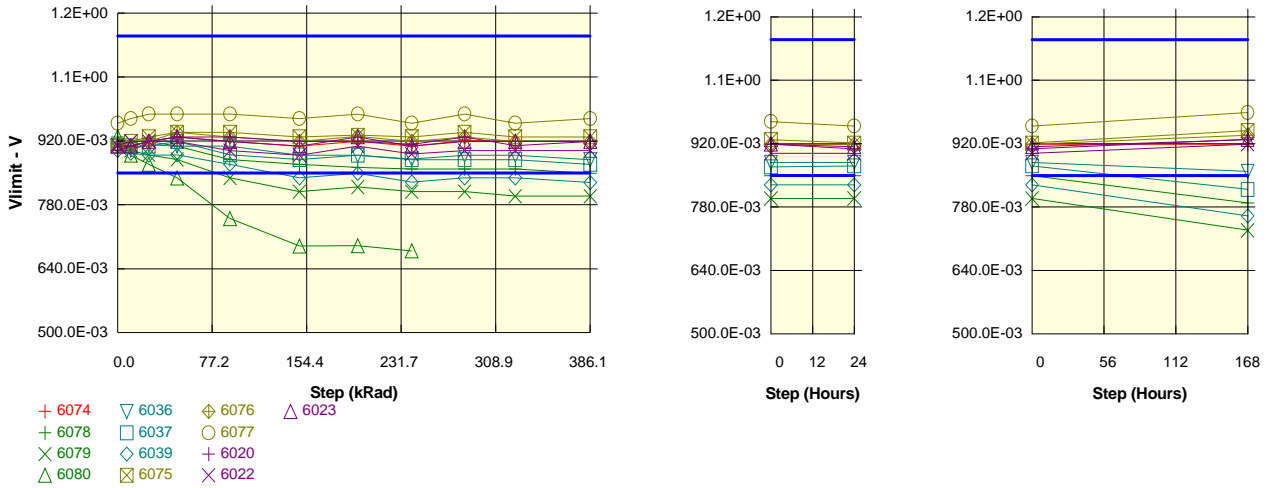
Test conditions :

Unit : V

Spec Limit Min : 850.0E-03

Spec Limit Max : 1.2E+00

Spec limits are represented in bold lines on the graphic.



Measurements

Vlimit	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	899.0E-03	899.0E-03	919.0E-03	929.0E-03	919.0E-03	909.0E-03	919.5E-03	909.0E-03	920.5E-03	919.0E-03	919.0E-03	919.0E-03	919.0E-03
ON PROTON samples													
6078	929.0E-03	909.0E-03	919.0E-03	909.0E-03	879.5E-03	869.0E-03	862.0E-03	859.0E-03	859.0E-03	859.0E-03	849.0E-03	849.0E-03	789.0E-03
6079	909.0E-03	899.0E-03	889.5E-03	879.5E-03	839.0E-03	809.0E-03	819.0E-03	809.0E-03	809.0E-03	799.0E-03	799.0E-03	799.0E-03	729.0E-03
6080	929.0E-03	889.0E-03	869.0E-03	839.0E-03	750.0E-03	690.0E-03	690.5E-03	679.0E-03	809.0E-03	799.0E-03	799.0E-03	799.0E-03	729.0E-03
Statistics													
Min	909.0E-03	889.0E-03	869.0E-03	839.0E-03	750.0E-03	690.0E-03	690.5E-03	679.0E-03	809.0E-03	799.0E-03	799.0E-03	799.0E-03	729.0E-03
Max	929.0E-03	909.0E-03	919.0E-03	909.0E-03	879.5E-03	869.0E-03	862.0E-03	859.0E-03	859.0E-03	859.0E-03	849.0E-03	849.0E-03	789.0E-03
Average	922.3E-03	899.0E-03	892.5E-03	875.8E-03	822.8E-03	789.3E-03	790.5E-03	782.3E-03	834.0E-03	829.0E-03	824.0E-03	824.0E-03	759.0E-03
Sigma	9.4E-03	8.2E-03	20.5E-03	28.7E-03	54.1E-03	74.4E-03	72.9E-03	75.9E-03	25.0E-03	30.0E-03	25.0E-03	25.0E-03	30.0E-03

Drift Calculation

Vlimit	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-20.0E-03	-10.0E-03	-20.0E-03	-49.5E-03	-60.0E-03	-67.0E-03	-70.0E-03	-70.0E-03	-70.0E-03	-80.0E-03	-80.0E-03	-140.0E-03
6079	-	-10.0E-03	-19.5E-03	-29.5E-03	-70.0E-03	-100.0E-03	-90.0E-03	-100.0E-03	-100.0E-03	-110.0E-03	-110.0E-03	-110.0E-03	-180.0E-03
6080	-	-40.0E-03	-60.0E-03	-90.0E-03	-179.0E-03	-239.0E-03	-238.5E-03	-250.0E-03	-	-	-	-	-
Average	-	-23.3E-03	-29.8E-03	-46.5E-03	-99.5E-03	-133.0E-03	-131.8E-03	-140.0E-03	-85.0E-03	-90.0E-03	-95.0E-03	-95.0E-03	-160.0E-03
Sigma	-	12.5E-03	21.7E-03	31.0E-03	56.8E-03	76.7E-03	76.0E-03	78.7E-03	15.0E-03	20.0E-03	15.0E-03	15.0E-03	20.0E-03

Measurements

Vlimit	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	899.0E-03	899.0E-03	919.0E-03	929.0E-03	919.0E-03	909.0E-03	919.5E-03	909.0E-03	920.5E-03	919.0E-03	919.0E-03	919.0E-03	919.0E-03
ON TID samples													
6036	909.0E-03	901.5E-03	911.5E-03	909.0E-03	909.0E-03	889.0E-03	889.0E-03	880.5E-03	889.0E-03	889.0E-03	879.0E-03	879.0E-03	859.0E-03
6037	909.0E-03	909.0E-03	909.0E-03	919.0E-03	890.0E-03	879.5E-03	889.0E-03	879.0E-03	879.0E-03	879.0E-03	869.0E-03	871.0E-03	819.0E-03
6039	899.0E-03	893.0E-03	889.0E-03	889.5E-03	869.0E-03	839.0E-03	849.0E-03	830.0E-03	839.0E-03	839.0E-03	829.0E-03	829.0E-03	760.5E-03
Statistics													
Min	899.0E-03	893.0E-03	889.0E-03	889.5E-03	869.0E-03	839.0E-03	849.0E-03	830.0E-03	839.0E-03	839.0E-03	829.0E-03	829.0E-03	760.5E-03
Max	909.0E-03	909.0E-03	911.5E-03	919.0E-03	909.0E-03	889.0E-03	889.0E-03	880.5E-03	889.0E-03	889.0E-03	879.0E-03	879.0E-03	859.0E-03
Average	905.7E-03	901.2E-03	903.2E-03	905.8E-03	889.3E-03	869.2E-03	875.7E-03	863.2E-03	869.0E-03	869.0E-03	859.0E-03	859.7E-03	812.8E-03
Sigma	4.7E-03	6.5E-03	10.1E-03	12.2E-03	16.3E-03	21.7E-03	18.9E-03	23.5E-03	21.6E-03	21.6E-03	21.6E-03	21.9E-03	40.4E-03

Drift Calculation

Vlimit	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-7.5E-03	2.5E-03	0.0E+00	-119.2E-09	-20.0E-03	-20.0E-03	-28.5E-03	-20.0E-03	-20.0E-03	-30.0E-03	-30.0E-03	-50.0E-03
6037	-	0.0E+00	0.0E+00	10.0E-03	-19.0E-03	-29.5E-03	-20.0E-03	-30.0E-03	-30.0E-03	-30.0E-03	-40.0E-03	-38.0E-03	-90.0E-03
6039	-	-6.0E-03	-10.0E-03	-9.5E-03	-30.0E-03	-60.0E-03	-50.0E-03	-69.0E-03	-60.0E-03	-60.0E-03	-70.0E-03	-70.0E-03	-138.5E-03
Average	-	-4.5E-03	-2.5E-03	166.7E-06	-16.3E-03	-36.5E-03	-30.0E-03	-42.5E-03	-36.7E-03	-36.7E-03	-46.7E-03	-46.0E-03	-92.8E-03
Sigma	-	3.2E-03	5.4E-03	8.0E-03	12.4E-03	17.1E-03	14.1E-03	18.7E-03	17.0E-03	17.0E-03	17.0E-03	17.3E-03	36.2E-03

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

Vlimit	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	899.0E-03	899.0E-03	919.0E-03	929.0E-03	919.0E-03	909.0E-03	919.5E-03	909.0E-03	920.5E-03	919.0E-03	919.0E-03	919.0E-03	919.0E-03
OFF PROTON samples													
6075	909.0E-03	919.0E-03	929.0E-03	939.0E-03	939.0E-03	929.0E-03	932.5E-03	929.0E-03	939.0E-03	929.0E-03	929.0E-03	921.5E-03	949.0E-03
6076	909.0E-03	909.5E-03	919.0E-03	939.0E-03	929.0E-03	919.0E-03	930.0E-03	919.0E-03	929.0E-03	919.0E-03	919.0E-03	919.0E-03	939.0E-03
6077	959.0E-03	969.0E-03	979.0E-03	979.0E-03	979.0E-03	969.0E-03	979.0E-03	959.0E-03	979.0E-03	959.0E-03	969.0E-03	959.0E-03	989.0E-03
Statistics													
Min	909.0E-03	909.5E-03	919.0E-03	939.0E-03	929.0E-03	919.0E-03	930.0E-03	919.0E-03	929.0E-03	919.0E-03	919.0E-03	919.0E-03	939.0E-03
Max	959.0E-03	969.0E-03	979.0E-03	979.0E-03	979.0E-03	969.0E-03	979.0E-03	959.0E-03	979.0E-03	959.0E-03	969.0E-03	959.0E-03	989.0E-03
Average	925.7E-03	932.5E-03	942.3E-03	952.3E-03	949.0E-03	939.0E-03	947.2E-03	935.7E-03	949.0E-03	935.7E-03	939.0E-03	933.2E-03	959.0E-03
Sigma	23.6E-03	26.1E-03	26.2E-03	18.9E-03	21.6E-03	21.6E-03	22.5E-03	17.0E-03	21.6E-03	17.0E-03	21.6E-03	18.3E-03	21.6E-03

Drift Calculation

Vlimit	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	10.0E-03	20.0E-03	30.0E-03	30.0E-03	20.0E-03	23.5E-03	20.0E-03	30.0E-03	20.0E-03	20.0E-03	12.5E-03	40.0E-03
6076	-	500.1E-06	10.0E-03	30.0E-03	20.0E-03	10.0E-03	21.0E-03	10.0E-03	20.0E-03	10.0E-03	10.0E-03	10.0E-03	30.0E-03
6077	-	10.0E-03	20.0E-03	20.0E-03	20.0E-03	10.0E-03	20.0E-03	0.0E+00	20.0E-03	0.0E+00	10.0E-03	0.0E+00	30.0E-03
Average	-	6.8E-03	16.7E-03	26.7E-03	23.3E-03	13.3E-03	21.5E-03	10.0E-03	23.3E-03	10.0E-03	13.3E-03	7.5E-03	33.3E-03
Sigma	-	4.5E-03	4.7E-03	4.7E-03	4.7E-03	4.7E-03	1.5E-03	8.2E-03	4.7E-03	8.2E-03	4.7E-03	5.4E-03	4.7E-03

Measurements

Vlimit	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	899.0E-03	899.0E-03	919.0E-03	929.0E-03	919.0E-03	909.0E-03	919.5E-03	909.0E-03	920.5E-03	919.0E-03	919.0E-03	919.0E-03	919.0E-03
OFF TID samples													
6020	899.0E-03	909.0E-03	919.0E-03	929.0E-03	929.0E-03	919.0E-03	919.5E-03	913.0E-03	929.0E-03	910.0E-03	919.0E-03	909.0E-03	930.0E-03
6022	910.5E-03	919.0E-03	919.0E-03	919.0E-03	899.0E-03	889.0E-03	909.0E-03	891.5E-03	899.0E-03	899.0E-03	899.0E-03	899.0E-03	919.0E-03
6023	909.0E-03	909.0E-03	919.0E-03	929.0E-03	919.0E-03	909.0E-03	929.0E-03	909.0E-03	919.0E-03	919.0E-03	919.0E-03	913.5E-03	929.0E-03
Statistics													
Min	899.0E-03	909.0E-03	919.0E-03	919.0E-03	899.0E-03	889.0E-03	909.0E-03	891.5E-03	899.0E-03	899.0E-03	899.0E-03	899.0E-03	919.0E-03
Max	910.5E-03	919.0E-03	919.0E-03	929.0E-03	929.0E-03	919.0E-03	929.0E-03	913.0E-03	929.0E-03	919.0E-03	919.0E-03	913.5E-03	930.0E-03
Average	906.2E-03	912.3E-03	919.0E-03	925.7E-03	915.7E-03	905.7E-03	919.2E-03	904.5E-03	915.7E-03	909.3E-03	912.3E-03	907.2E-03	926.0E-03
Sigma	5.1E-03	4.7E-03	6.1E-03	4.7E-03	12.5E-03	12.5E-03	8.2E-03	9.3E-03	12.5E-03	8.2E-03	9.4E-03	6.1E-03	5.0E-03

Drift Calculation

Vlimit	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	10.0E-03	20.0E-03	30.0E-03	30.0E-03	20.0E-03	20.5E-03	14.0E-03	30.0E-03	11.0E-03	20.0E-03	10.0E-03	31.0E-03
6022	-	8.5E-03	8.5E-03	8.5E-03	-11.5E-03	-21.5E-03	-1.5E-03	-19.0E-03	-11.5E-03	-11.5E-03	-11.5E-03	-11.5E-03	8.5E-03
6023	-	119.2E-09	10.0E-03	20.0E-03	10.0E-03	119.2E-09	20.0E-03	119.2E-09	10.0E-03	10.0E-03	10.0E-03	4.5E-03	20.0E-03
Average	-	6.2E-03	12.8E-03	19.5E-03	9.5E-03	-500.0E-06	13.0E-03	-1.7E-03	9.5E-03	3.2E-03	6.2E-03	1.0E-03	19.8E-03
Sigma	-	4.4E-03	5.1E-03	8.8E-03	16.9E-03	16.9E-03	10.3E-03	13.5E-03	16.9E-03	10.4E-03	13.1E-03	9.1E-03	9.2E-03

Parameter : Over Current Threshold : Vover

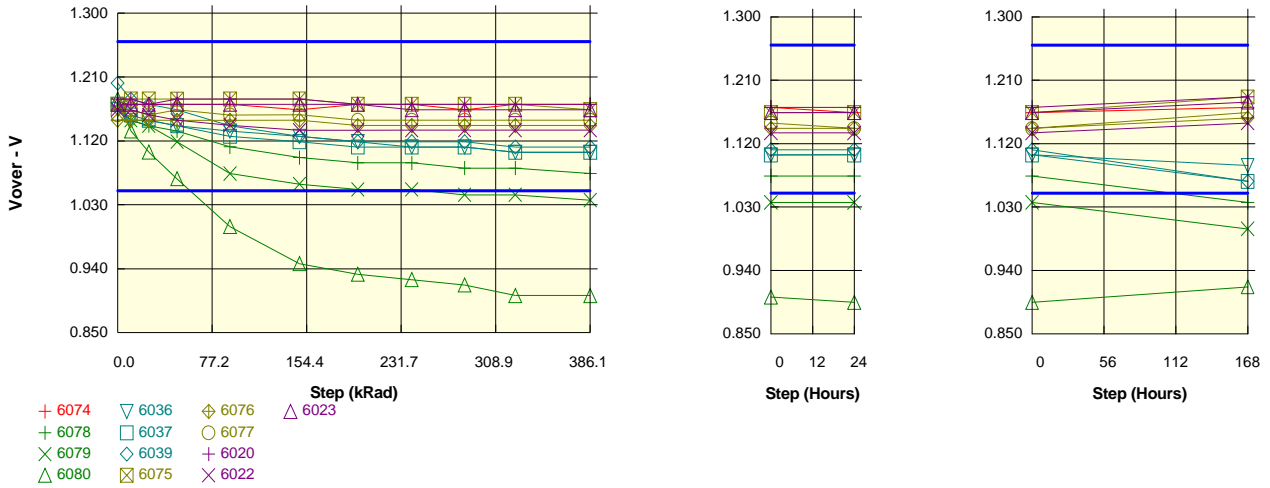
Test conditions :

Unit : V

Spec Limit Min : 1.050

Spec Limit Max : 1.260

Spec limits are represented in bold lines on the graphic.



Measurements

Vover	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.164	1.172	1.172	1.172	1.172	1.164	1.172	1.172	1.164	1.172	1.172	1.164	1.172
ON PROTON samples													
6078	1.164	1.149	1.142	1.134	1.112	1.097	1.089	1.089	1.082	1.082	1.074	1.074	1.037
6079	1.172	1.149	1.142	1.119	1.074	1.059	1.052	1.052	1.044	1.044	1.037	1.037	0.999
6080	1.179	1.134	1.104	1.067	1.000	0.947	0.932	0.925	0.917	0.902	0.902	0.895	0.917
Statistics													
Min	1.164	1.134	1.104	1.067	1.000	0.947	0.932	0.925	0.917	0.902	0.902	0.895	0.917
Max	1.179	1.149	1.142	1.134	1.112	1.097	1.089	1.089	1.082	1.082	1.074	1.074	1.037
Average	1.172	1.144	1.129	1.107	1.062	1.034	1.024	1.022	1.014	1.009	1.004	1.002	0.984
Sigma	0.006	0.007	0.018	0.029	0.047	0.064	0.067	0.070	0.070	0.077	0.074	0.077	0.050

Drift Calculation

Vover	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	-15.0E-03	-22.5E-03	-30.0E-03	-52.5E-03	-67.4E-03	-74.9E-03	-74.9E-03	-82.4E-03	-82.4E-03	-89.9E-03	-89.9E-03	-127.4E-03
6079	-	-22.5E-03	-30.0E-03	-52.5E-03	-97.4E-03	-112.4E-03	-119.9E-03	-119.9E-03	-127.4E-03	-127.4E-03	-134.9E-03	-134.9E-03	-172.4E-03
6080	-	-45.0E-03	-75.0E-03	-112.4E-03	-179.7E-03	-232.0E-03	-247.0E-03	-254.5E-03	-262.0E-03	-276.9E-03	-277.0E-03	-284.4E-03	-262.4E-03
Average	-	-27.5E-03	-42.5E-03	-65.0E-03	-109.9E-03	-137.3E-03	-147.3E-03	-149.8E-03	-157.3E-03	-162.2E-03	-167.2E-03	-169.7E-03	-187.4E-03
Sigma	-	12.7E-03	23.1E-03	34.7E-03	52.7E-03	69.5E-03	72.9E-03	76.3E-03	76.3E-03	83.2E-03	79.7E-03	83.2E-03	56.1E-03

Measurements

Vover	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.164	1.172	1.172	1.172	1.172	1.164	1.172	1.172	1.164	1.172	1.172	1.164	1.172
ON TID samples													
6036	1.164	1.149	1.149	1.142	1.134	1.127	1.119	1.112	1.112	1.104	1.104	1.104	1.089
6037	1.172	1.157	1.149	1.142	1.127	1.119	1.112	1.112	1.112	1.104	1.104	1.104	1.067
6039	1.202	1.179	1.171	1.164	1.141	1.127	1.119	1.119	1.119	1.112	1.112	1.112	1.067
Statistics													
Min	1.164	1.149	1.149	1.142	1.127	1.119	1.112	1.112	1.112	1.104	1.104	1.104	1.067
Max	1.202	1.179	1.171	1.164	1.141	1.127	1.119	1.119	1.119	1.112	1.112	1.112	1.089
Average	1.179	1.162	1.157	1.149	1.134	1.124	1.117	1.114	1.114	1.107	1.107	1.107	1.074
Sigma	0.016	0.013	0.011	0.011	0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.011

Drift Calculation

Vover	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-15.1E-03	-15.1E-03	-22.6E-03	-30.1E-03	-37.6E-03	-45.1E-03	-52.6E-03	-52.6E-03	-60.1E-03	-60.1E-03	-60.1E-03	-75.1E-03
6037	-	-15.1E-03	-22.6E-03	-30.1E-03	-45.1E-03	-52.6E-03	-60.1E-03	-60.1E-03	-60.1E-03	-67.6E-03	-67.6E-03	-67.6E-03	-105.1E-03
6039	-	-22.5E-03	-30.1E-03	-37.6E-03	-60.1E-03	-75.1E-03	-82.6E-03	-82.6E-03	-82.6E-03	-90.0E-03	-90.0E-03	-90.0E-03	-135.0E-03
Average	-	-17.6E-03	-22.6E-03	-30.1E-03	-45.1E-03	-55.1E-03	-62.6E-03	-65.1E-03	-65.1E-03	-72.6E-03	-72.6E-03	-72.6E-03	-105.1E-03
Sigma	-	3.5E-03	6.1E-03	6.1E-03	12.2E-03	15.4E-03	15.4E-03	12.7E-03	12.7E-03	12.7E-03	12.7E-03	12.7E-03	24.5E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

Vover	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.164	1.172	1.172	1.172	1.172	1.164	1.172	1.172	1.164	1.172	1.172	1.164	1.172
OFF PROTON samples													
6075	1.172	1.179	1.179	1.179	1.179	1.179	1.172	1.172	1.172	1.172	1.164	1.164	1.187
6076	1.149	1.149	1.149	1.149	1.149	1.149	1.142	1.142	1.142	1.142	1.142	1.142	1.157
6077	1.157	1.164	1.157	1.164	1.157	1.157	1.149	1.149	1.149	1.149	1.149	1.142	1.164
Statistics													
Min	1.149	1.149	1.149	1.149	1.149	1.149	1.142	1.142	1.142	1.142	1.142	1.142	1.157
Max	1.172	1.179	1.179	1.179	1.179	1.179	1.172	1.172	1.172	1.172	1.164	1.164	1.187
Average	1.159	1.164	1.162	1.164	1.162	1.162	1.154	1.154	1.154	1.154	1.152	1.149	1.169
Sigma	0.009	0.012	0.013	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.009	0.011	0.013

Drift Calculation

Vover	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	7.5E-03	7.5E-03	7.4E-03	7.5E-03	7.5E-03	-2.9E-06	-15.0E-06	-6.1E-06	18.0E-06	-7.5E-03	-7.5E-03	15.0E-03
6076	-	-33.5E-06	-38.4E-06	-69.5E-06	-58.3E-06	-30.9E-06	-7.5E-03	-7.5E-03	-7.5E-03	-7.5E-03	-7.5E-03	-7.5E-03	7.4E-03
6077	-	7.5E-03	-25.4E-06	7.4E-03	-34.0E-06	715.3E-09	-7.5E-03	-7.5E-03	-7.5E-03	-7.5E-03	-7.5E-03	-15.0E-03	7.5E-03
Average	-	5.0E-03	2.5E-03	4.9E-03	2.5E-03	2.5E-03	-5.0E-03	-5.0E-03	-5.0E-03	-5.0E-03	-7.5E-03	-10.0E-03	10.0E-03
Sigma	-	3.5E-03	3.5E-03	3.5E-03	3.5E-03	3.5E-03	3.5E-03	3.5E-03	3.5E-03	3.5E-03	14.1E-06	3.5E-03	3.5E-03

Measurements

Vover	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.164	1.172	1.172	1.172	1.172	1.164	1.172	1.172	1.164	1.172	1.172	1.164	1.172
OFF TID samples													
6020	1.179	1.179	1.172	1.179	1.179	1.179	1.172	1.172	1.172	1.172	1.172	1.172	1.187
6022	1.164	1.164	1.157	1.149	1.142	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.149
6023	1.172	1.172	1.172	1.172	1.172	1.172	1.172	1.164	1.164	1.164	1.164	1.164	1.179
Statistics													
Min	1.164	1.164	1.157	1.149	1.142	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.149
Max	1.179	1.179	1.172	1.179	1.179	1.179	1.172	1.172	1.172	1.172	1.172	1.172	1.187
Average	1.172	1.172	1.167	1.167	1.164	1.162	1.159	1.157	1.157	1.157	1.157	1.157	1.172
Sigma	0.006	0.006	0.007	0.013	0.016	0.019	0.017	0.016	0.016	0.016	0.016	0.016	0.016

Drift Calculation

Vover	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-50.4E-06	-7.6E-03	-102.6E-06	-101.7E-06	-74.0E-06	-7.6E-03	-7.6E-03	-7.6E-03	-7.5E-03	-7.6E-03	-7.5E-03	7.4E-03
6022	-	-23.1E-06	-7.5E-03	-14.9E-03	-22.0E-03	-29.0E-03	-29.0E-03	-28.9E-03	-28.9E-03	-28.8E-03	-28.8E-03	-28.8E-03	-14.7E-03
6023	-	-68.7E-06	-89.3E-06	-123.4E-06	-126.7E-06	-94.2E-06	-99.9E-06	-7.6E-03	-7.6E-03	-7.6E-03	-7.6E-03	-7.5E-03	7.4E-03
Average	-	-47.4E-06	-5.0E-03	-5.0E-03	-7.4E-03	-9.7E-03	-12.2E-03	-14.7E-03	-14.7E-03	-14.6E-03	-14.6E-03	-14.6E-03	34.5E-06
Sigma	-	18.7E-06	3.5E-03	7.0E-03	10.3E-03	13.7E-03	12.2E-03	10.0E-03	10.0E-03	10.0E-03	10.0E-03	10.0E-03	10.4E-03

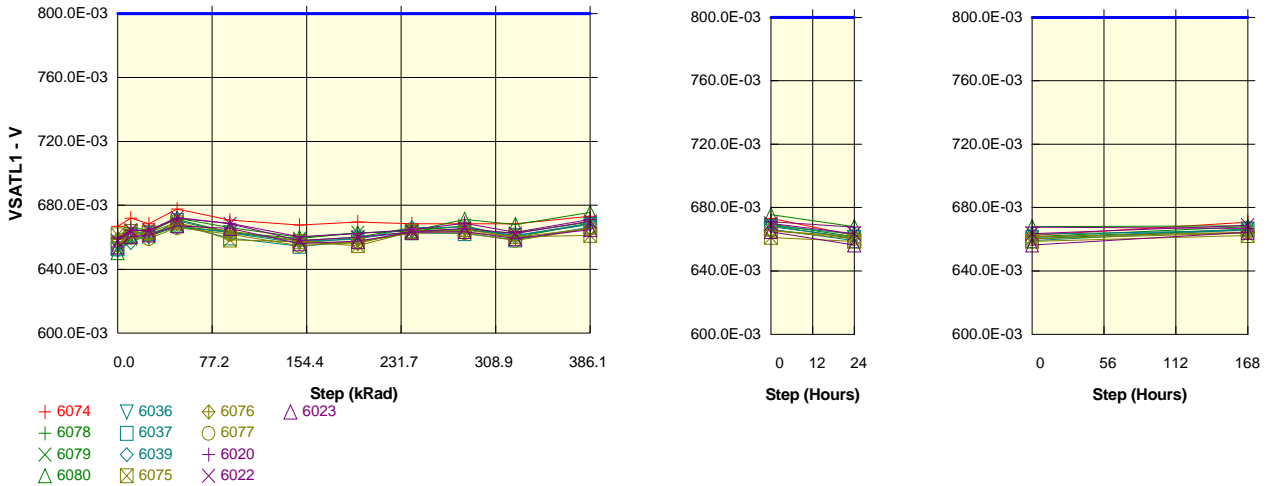
Parameter : Output Low Saturation 1 : VSATL1OUTA

Test conditions : Iout=20mA

Unit : V

Spec Limit Max : 800.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

VSATL1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	666.8E-03	672.0E-03	668.4E-03	677.6E-03	670.8E-03	667.6E-03	669.6E-03	668.4E-03	668.4E-03	668.4E-03	673.2E-03	662.4E-03	670.8E-03
ON PROTON samples													
6078	660.8E-03	666.0E-03	664.4E-03	671.2E-03	663.2E-03	658.0E-03	660.0E-03	666.0E-03	664.4E-03	662.8E-03	669.6E-03	661.6E-03	668.0E-03
6079	652.8E-03	659.2E-03	660.4E-03	667.2E-03	663.2E-03	659.2E-03	662.8E-03	664.0E-03	667.2E-03	660.0E-03	668.8E-03	660.4E-03	666.4E-03
6080	650.4E-03	661.2E-03	663.2E-03	672.0E-03	666.0E-03	660.0E-03	662.8E-03	664.0E-03	671.2E-03	668.0E-03	675.6E-03	668.0E-03	668.4E-03
Statistics													
Min	650.4E-03	659.2E-03	660.4E-03	667.2E-03	663.2E-03	658.0E-03	660.0E-03	664.0E-03	664.4E-03	660.0E-03	668.8E-03	660.4E-03	666.4E-03
Max	660.8E-03	666.0E-03	664.4E-03	672.0E-03	666.0E-03	660.0E-03	662.8E-03	666.0E-03	671.2E-03	668.0E-03	675.6E-03	668.0E-03	668.4E-03
Average	654.7E-03	662.1E-03	662.7E-03	670.1E-03	664.1E-03	659.1E-03	661.9E-03	664.7E-03	667.6E-03	663.6E-03	671.3E-03	663.3E-03	667.6E-03
Sigma	4.4E-03	2.9E-03	1.7E-03	2.1E-03	1.3E-03	821.9E-06	1.3E-03	942.8E-06	2.8E-03	3.3E-03	3.0E-03	3.3E-03	864.1E-06

Drift Calculation

VSATL1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	5.2E-03	3.6E-03	10.4E-03	2.4E-03	-2.8E-03	-800.0E-06	5.2E-03	3.6E-03	2.0E-03	8.8E-03	800.0E-06	7.2E-03
6079	-	6.4E-03	7.6E-03	14.4E-03	10.4E-03	6.4E-03	10.0E-03	11.2E-03	14.4E-03	7.2E-03	16.0E-03	7.6E-03	13.6E-03
6080	-	10.8E-03	12.8E-03	21.6E-03	15.6E-03	9.6E-03	12.4E-03	13.6E-03	20.8E-03	17.6E-03	25.2E-03	17.6E-03	18.0E-03
Average	-	7.5E-03	8.0E-03	15.5E-03	9.5E-03	4.4E-03	7.2E-03	10.0E-03	12.9E-03	8.9E-03	16.7E-03	8.7E-03	12.9E-03
Sigma	-	2.4E-03	3.8E-03	4.6E-03	5.4E-03	5.3E-03	5.7E-03	3.5E-03	7.1E-03	6.5E-03	6.7E-03	6.9E-03	4.4E-03

Measurements

VSATL1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	666.8E-03	672.0E-03	668.4E-03	677.6E-03	670.8E-03	667.6E-03	669.6E-03	668.4E-03	668.4E-03	668.4E-03	673.2E-03	662.4E-03	670.8E-03
ON TID samples													
6036	655.2E-03	660.8E-03	660.0E-03	670.4E-03	662.8E-03	656.4E-03	659.6E-03	663.2E-03	664.8E-03	661.2E-03	668.0E-03	661.2E-03	666.4E-03
6037	652.8E-03	663.6E-03	662.4E-03	667.6E-03	659.6E-03	654.4E-03	657.2E-03	662.8E-03	662.4E-03	658.4E-03	666.4E-03	659.2E-03	666.0E-03
6039	652.0E-03	656.8E-03	661.6E-03	666.4E-03	663.2E-03	657.6E-03	658.8E-03	666.0E-03	666.4E-03	661.2E-03	668.8E-03	663.2E-03	665.6E-03
Statistics													
Min	652.0E-03	656.8E-03	660.0E-03	666.4E-03	659.6E-03	654.4E-03	657.2E-03	662.8E-03	662.4E-03	658.4E-03	666.4E-03	659.2E-03	665.6E-03
Max	655.2E-03	663.6E-03	662.4E-03	670.4E-03	663.2E-03	657.6E-03	659.6E-03	666.0E-03	666.4E-03	661.2E-03	668.8E-03	663.2E-03	666.4E-03
Average	653.3E-03	660.4E-03	661.3E-03	668.1E-03	661.9E-03	656.1E-03	658.5E-03	664.0E-03	664.5E-03	660.3E-03	667.7E-03	661.2E-03	666.0E-03
Sigma	1.4E-03	2.8E-03	997.8E-06	1.7E-03	1.6E-03	1.3E-03	997.8E-06	1.4E-03	1.6E-03	1.3E-03	997.8E-06	1.6E-03	326.6E-06

Drift Calculation

VSATL1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	5.6E-03	4.8E-03	15.2E-03	7.6E-03	1.2E-03	4.4E-03	8.0E-03	9.6E-03	6.0E-03	12.8E-03	6.0E-03	11.2E-03
6037	-	10.8E-03	9.6E-03	14.8E-03	6.8E-03	1.6E-03	4.4E-03	10.0E-03	9.6E-03	5.6E-03	13.6E-03	6.4E-03	13.2E-03
6039	-	4.8E-03	9.6E-03	14.4E-03	11.2E-03	5.6E-03	6.8E-03	14.0E-03	14.4E-03	9.2E-03	16.8E-03	11.2E-03	13.6E-03
Average	-	7.1E-03	8.0E-03	14.8E-03	8.5E-03	2.8E-03	5.2E-03	10.7E-03	11.2E-03	6.9E-03	14.4E-03	7.9E-03	12.7E-03
Sigma	-	2.7E-03	2.3E-03	326.6E-06	1.9E-03	2.0E-03	1.1E-03	2.5E-03	2.3E-03	1.6E-03	1.7E-03	2.4E-03	1.0E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VSATL10UTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	666.8E-03	672.0E-03	668.4E-03	677.6E-03	670.8E-03	667.6E-03	669.6E-03	668.4E-03	668.4E-03	668.4E-03	673.2E-03	662.4E-03	670.8E-03
OFF PROTON samples													
6075	661.6E-03	663.6E-03	663.2E-03	669.2E-03	658.4E-03	657.2E-03	654.8E-03	663.6E-03	664.8E-03	660.4E-03	661.2E-03	658.8E-03	662.4E-03
6076	658.8E-03	662.4E-03	661.2E-03	668.4E-03	664.0E-03	657.6E-03	656.0E-03	664.4E-03	663.6E-03	660.0E-03	665.6E-03	661.6E-03	664.4E-03
6077	655.2E-03	660.0E-03	659.2E-03	666.0E-03	662.0E-03	654.8E-03	657.2E-03	662.8E-03	662.8E-03	658.0E-03	665.6E-03	660.4E-03	664.0E-03
Statistics													
Min	655.2E-03	660.0E-03	659.2E-03	666.0E-03	658.4E-03	654.8E-03	654.8E-03	662.8E-03	662.8E-03	658.0E-03	661.2E-03	658.8E-03	662.4E-03
Max	661.6E-03	663.6E-03	663.2E-03	669.2E-03	664.0E-03	657.6E-03	657.2E-03	664.4E-03	664.8E-03	660.4E-03	665.6E-03	661.6E-03	664.4E-03
Average	658.5E-03	662.0E-03	661.2E-03	667.9E-03	661.5E-03	656.5E-03	656.0E-03	663.6E-03	663.7E-03	659.5E-03	664.1E-03	660.3E-03	663.6E-03
Sigma	2.6E-03	1.5E-03	1.6E-03	1.4E-03	2.3E-03	1.2E-03	979.8E-06	653.2E-06	821.9E-06	1.0E-03	2.1E-03	1.1E-03	864.1E-06

Drift Calculation

VSATL10UTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	2.0E-03	1.6E-03	7.6E-03	-3.2E-03	-4.4E-03	-6.8E-03	2.0E-03	3.2E-03	-1.2E-03	-400.0E-06	-2.8E-03	800.0E-06
6076	-	3.6E-03	2.4E-03	9.6E-03	5.2E-03	-1.2E-03	-2.8E-03	5.6E-03	4.8E-03	1.2E-03	6.8E-03	2.8E-03	5.6E-03
6077	-	4.8E-03	4.0E-03	10.8E-03	6.8E-03	-400.0E-06	2.0E-03	7.6E-03	7.6E-03	2.8E-03	10.4E-03	5.2E-03	8.8E-03
Average	-	3.5E-03	2.7E-03	9.3E-03	2.9E-03	-2.0E-03	-2.5E-03	5.1E-03	5.2E-03	933.3E-06	5.6E-03	1.7E-03	5.1E-03
Sigma	-	1.1E-03	997.8E-06	1.3E-03	4.4E-03	1.7E-03	3.6E-03	2.3E-03	1.8E-03	1.6E-03	4.5E-03	3.4E-03	3.3E-03

Measurements

VSATL10UTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	666.8E-03	672.0E-03	668.4E-03	677.6E-03	670.8E-03	667.6E-03	669.6E-03	668.4E-03	668.4E-03	668.4E-03	673.2E-03	662.4E-03	670.8E-03
OFF TID samples													
6020	659.6E-03	664.4E-03	664.0E-03	672.0E-03	668.8E-03	660.4E-03	662.4E-03	664.8E-03	668.8E-03	663.2E-03	671.2E-03	667.6E-03	666.8E-03
6022	657.6E-03	664.4E-03	664.4E-03	672.4E-03	668.4E-03	658.0E-03	660.0E-03	663.6E-03	665.6E-03	662.4E-03	670.0E-03	663.6E-03	668.8E-03
6023	654.0E-03	660.4E-03	661.6E-03	667.2E-03	665.6E-03	656.0E-03	657.6E-03	663.2E-03	663.6E-03	659.2E-03	664.8E-03	656.4E-03	664.4E-03
Statistics													
Min	654.0E-03	660.4E-03	661.6E-03	667.2E-03	665.6E-03	656.0E-03	657.6E-03	663.2E-03	663.6E-03	659.2E-03	664.8E-03	656.4E-03	664.4E-03
Max	659.6E-03	664.4E-03	664.4E-03	672.4E-03	668.8E-03	660.4E-03	662.4E-03	664.8E-03	668.8E-03	663.2E-03	671.2E-03	667.6E-03	668.8E-03
Average	657.1E-03	663.1E-03	663.3E-03	670.5E-03	667.6E-03	658.1E-03	660.0E-03	663.9E-03	666.0E-03	661.6E-03	668.7E-03	662.5E-03	666.7E-03
Sigma	2.3E-03	1.9E-03	1.2E-03	2.4E-03	1.4E-03	1.8E-03	2.0E-03	679.9E-06	2.1E-03	1.7E-03	2.8E-03	4.6E-03	1.8E-03

Drift Calculation

VSATL10UTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	4.8E-03	4.4E-03	12.4E-03	9.2E-03	800.0E-06	2.8E-03	5.2E-03	9.2E-03	3.6E-03	11.6E-03	8.0E-03	7.2E-03
6022	-	6.8E-03	6.8E-03	14.8E-03	10.8E-03	400.0E-06	2.4E-03	6.0E-03	8.0E-03	4.8E-03	12.4E-03	6.0E-03	11.2E-03
6023	-	6.4E-03	7.6E-03	13.2E-03	11.6E-03	2.0E-03	3.6E-03	9.2E-03	9.6E-03	5.2E-03	10.8E-03	2.4E-03	10.4E-03
Average	-	6.0E-03	6.3E-03	13.5E-03	10.5E-03	1.1E-03	2.9E-03	6.8E-03	8.9E-03	4.5E-03	11.6E-03	5.5E-03	9.6E-03
Sigma	-	864.1E-06	1.4E-03	997.8E-06	997.8E-06	679.9E-06	498.9E-06	1.7E-03	679.9E-06	679.9E-06	653.2E-06	2.3E-03	1.7E-03

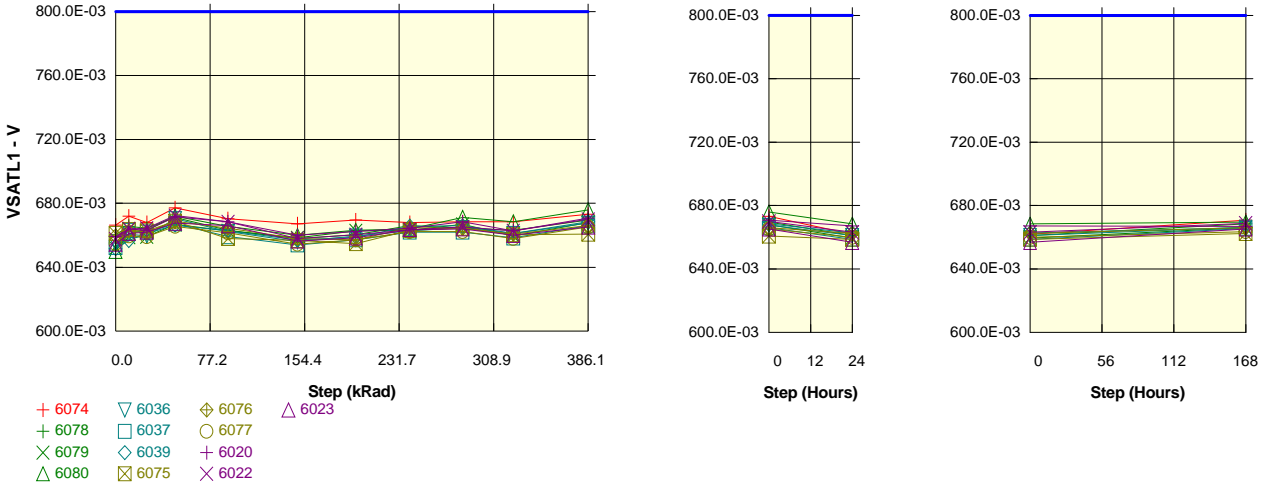
Parameter : Output Low Saturation 1 : VSATL1OUTB

Test conditions : Iout=20mA

Unit : V

Spec Limit Max : 800.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

VSATL1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	666.4E-03	672.0E-03	668.0E-03	677.2E-03	670.4E-03	667.2E-03	669.6E-03	668.0E-03	668.4E-03	668.4E-03	673.2E-03	662.0E-03	670.8E-03
ON PROTON samples													
6078	660.4E-03	665.6E-03	664.4E-03	671.2E-03	663.2E-03	658.0E-03	660.4E-03	666.0E-03	664.4E-03	663.2E-03	669.6E-03	661.2E-03	668.4E-03
6079	652.0E-03	658.8E-03	659.2E-03	666.8E-03	662.8E-03	658.4E-03	662.8E-03	663.2E-03	666.8E-03	659.6E-03	668.0E-03	659.6E-03	666.0E-03
6080	650.0E-03	661.2E-03	663.2E-03	672.0E-03	665.6E-03	660.0E-03	663.2E-03	664.0E-03	671.2E-03	668.4E-03	676.0E-03	668.4E-03	669.6E-03
Statistics													
Min	650.0E-03	658.8E-03	659.2E-03	666.8E-03	662.8E-03	658.0E-03	660.4E-03	663.2E-03	664.4E-03	659.6E-03	668.0E-03	659.6E-03	666.0E-03
Max	660.4E-03	665.6E-03	664.4E-03	672.0E-03	665.6E-03	660.0E-03	663.2E-03	666.0E-03	671.2E-03	668.4E-03	676.0E-03	668.4E-03	669.6E-03
Average	654.1E-03	661.9E-03	662.3E-03	670.0E-03	663.9E-03	658.8E-03	662.1E-03	664.4E-03	667.5E-03	663.7E-03	671.2E-03	663.1E-03	668.0E-03
Sigma	4.5E-03	2.8E-03	2.2E-03	2.3E-03	1.2E-03	864.1E-06	1.2E-03	1.2E-03	2.8E-03	3.6E-03	3.5E-03	3.8E-03	1.5E-03

Drift Calculation

VSATL1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	5.2E-03	4.0E-03	10.8E-03	2.8E-03	-2.4E-03	0.0E+00	5.6E-03	4.0E-03	2.8E-03	9.2E-03	800.0E-06	8.0E-03
6079	-	6.8E-03	7.2E-03	14.8E-03	10.8E-03	6.4E-03	10.8E-03	11.2E-03	14.8E-03	7.6E-03	16.0E-03	7.6E-03	14.0E-03
6080	-	11.2E-03	13.2E-03	22.0E-03	15.6E-03	10.0E-03	13.2E-03	14.0E-03	21.2E-03	18.4E-03	26.0E-03	18.4E-03	19.6E-03
Average	-	7.7E-03	8.1E-03	15.9E-03	9.7E-03	4.7E-03	8.0E-03	10.3E-03	13.3E-03	9.6E-03	17.1E-03	8.9E-03	13.9E-03
Sigma	-	2.5E-03	3.8E-03	4.6E-03	5.3E-03	5.2E-03	5.7E-03	3.5E-03	7.1E-03	6.5E-03	6.9E-03	7.2E-03	4.7E-03

Measurements

VSATL1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	666.4E-03	672.0E-03	668.0E-03	677.2E-03	670.4E-03	667.2E-03	669.6E-03	668.0E-03	668.4E-03	668.4E-03	673.2E-03	662.0E-03	670.8E-03
ON TID samples													
6036	654.8E-03	660.8E-03	659.6E-03	670.4E-03	662.4E-03	656.0E-03	659.6E-03	662.8E-03	664.8E-03	661.2E-03	667.6E-03	661.2E-03	666.4E-03
6037	652.4E-03	663.2E-03	662.0E-03	667.2E-03	659.2E-03	654.0E-03	657.2E-03	662.0E-03	662.0E-03	658.4E-03	666.0E-03	658.8E-03	665.6E-03
6039	651.6E-03	656.8E-03	661.2E-03	666.4E-03	662.8E-03	657.2E-03	658.8E-03	665.6E-03	666.0E-03	661.2E-03	668.4E-03	662.8E-03	666.0E-03
Statistics													
Min	651.6E-03	656.8E-03	659.6E-03	666.4E-03	659.2E-03	654.0E-03	657.2E-03	662.0E-03	662.0E-03	658.4E-03	666.0E-03	658.8E-03	665.6E-03
Max	654.8E-03	663.2E-03	662.0E-03	670.4E-03	662.8E-03	657.2E-03	659.6E-03	665.6E-03	666.0E-03	661.2E-03	668.4E-03	662.8E-03	666.4E-03
Average	652.9E-03	660.3E-03	660.9E-03	668.0E-03	661.5E-03	655.7E-03	658.5E-03	663.5E-03	664.3E-03	660.3E-03	667.3E-03	660.9E-03	666.0E-03
Sigma	1.4E-03	2.6E-03	997.8E-06	1.7E-03	1.6E-03	1.3E-03	997.8E-06	1.5E-03	1.7E-03	1.3E-03	997.8E-06	1.6E-03	326.6E-06

Drift Calculation

VSATL1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	6.0E-03	4.8E-03	15.6E-03	7.6E-03	1.2E-03	4.8E-03	8.0E-03	10.0E-03	6.4E-03	12.8E-03	6.4E-03	11.6E-03
6037	-	10.8E-03	9.6E-03	14.8E-03	6.8E-03	1.6E-03	4.8E-03	9.6E-03	9.6E-03	6.0E-03	13.6E-03	6.4E-03	13.2E-03
6039	-	5.2E-03	9.6E-03	14.8E-03	11.2E-03	5.6E-03	7.2E-03	14.0E-03	14.4E-03	9.6E-03	16.8E-03	11.2E-03	14.4E-03
Average	-	7.3E-03	8.0E-03	15.1E-03	8.5E-03	2.8E-03	5.6E-03	10.5E-03	11.3E-03	7.3E-03	14.4E-03	8.0E-03	13.1E-03
Sigma	-	2.5E-03	2.3E-03	377.1E-06	1.9E-03	2.0E-03	1.1E-03	2.5E-03	2.2E-03	1.6E-03	1.7E-03	2.3E-03	1.1E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VSATL1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	666.4E-03	672.0E-03	668.0E-03	677.2E-03	670.4E-03	667.2E-03	669.6E-03	668.0E-03	668.4E-03	668.4E-03	673.2E-03	662.0E-03	670.8E-03
OFF PROTON samples													
6075	661.2E-03	663.6E-03	662.8E-03	668.8E-03	658.0E-03	656.8E-03	654.8E-03	663.2E-03	664.4E-03	660.4E-03	660.8E-03	658.8E-03	662.4E-03
6076	659.6E-03	662.8E-03	661.6E-03	668.8E-03	664.4E-03	658.0E-03	657.2E-03	664.8E-03	664.4E-03	660.8E-03	666.0E-03	662.4E-03	666.0E-03
6077	654.8E-03	659.6E-03	659.2E-03	665.6E-03	661.6E-03	654.4E-03	657.2E-03	662.4E-03	662.4E-03	658.0E-03	665.2E-03	660.0E-03	663.6E-03
Statistics													
Min	654.8E-03	659.6E-03	659.2E-03	665.6E-03	658.0E-03	654.4E-03	654.8E-03	662.4E-03	662.4E-03	658.0E-03	660.8E-03	658.8E-03	662.4E-03
Max	661.2E-03	663.6E-03	662.8E-03	668.8E-03	664.4E-03	658.0E-03	657.2E-03	664.8E-03	664.4E-03	660.8E-03	666.0E-03	662.4E-03	666.0E-03
Average	658.5E-03	662.0E-03	661.2E-03	667.7E-03	661.3E-03	656.4E-03	656.4E-03	663.5E-03	663.7E-03	659.7E-03	664.0E-03	660.4E-03	664.0E-03
Sigma	2.7E-03	1.7E-03	1.5E-03	1.5E-03	2.6E-03	1.5E-03	1.1E-03	997.8E-06	942.8E-06	1.2E-03	2.3E-03	1.5E-03	1.5E-03

Drift Calculation

VSATL1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	2.4E-03	1.6E-03	7.6E-03	-3.2E-03	-4.4E-03	-6.4E-03	2.0E-03	3.2E-03	-800.0E-06	-400.0E-06	-2.4E-03	1.2E-03
6076	-	3.2E-03	2.0E-03	9.2E-03	4.8E-03	-1.6E-03	-2.4E-03	5.2E-03	4.8E-03	1.2E-03	6.4E-03	2.8E-03	6.4E-03
6077	-	4.8E-03	4.4E-03	10.8E-03	6.8E-03	-400.0E-06	2.4E-03	7.6E-03	7.6E-03	3.2E-03	10.4E-03	5.2E-03	8.8E-03
Average	-	3.5E-03	2.7E-03	9.2E-03	2.8E-03	-2.1E-03	-2.1E-03	4.9E-03	5.2E-03	1.2E-03	5.5E-03	1.9E-03	5.5E-03
Sigma	-	997.8E-06	1.2E-03	1.3E-03	4.3E-03	1.7E-03	3.6E-03	2.3E-03	1.8E-03	1.6E-03	4.5E-03	3.2E-03	3.2E-03

Measurements

VSATL1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	666.4E-03	672.0E-03	668.0E-03	677.2E-03	670.4E-03	667.2E-03	669.6E-03	668.0E-03	668.4E-03	668.4E-03	673.2E-03	662.0E-03	670.8E-03
OFF TID samples													
6020	659.2E-03	664.0E-03	663.2E-03	671.6E-03	668.4E-03	660.0E-03	662.4E-03	664.4E-03	668.4E-03	662.8E-03	670.8E-03	667.2E-03	666.8E-03
6022	657.6E-03	664.0E-03	664.4E-03	672.4E-03	668.4E-03	658.0E-03	660.4E-03	663.6E-03	665.2E-03	662.8E-03	670.0E-03	663.2E-03	668.8E-03
6023	654.4E-03	661.2E-03	662.0E-03	667.6E-03	666.0E-03	656.4E-03	658.4E-03	663.6E-03	664.0E-03	660.0E-03	665.2E-03	656.8E-03	665.2E-03
Statistics													
Min	654.4E-03	661.2E-03	662.0E-03	667.6E-03	666.0E-03	656.4E-03	658.4E-03	663.6E-03	664.0E-03	660.0E-03	665.2E-03	656.8E-03	665.2E-03
Max	659.2E-03	664.0E-03	664.4E-03	672.4E-03	668.4E-03	660.0E-03	662.4E-03	664.4E-03	668.4E-03	662.8E-03	670.8E-03	667.2E-03	668.8E-03
Average	657.1E-03	663.1E-03	663.2E-03	670.5E-03	667.6E-03	658.1E-03	660.4E-03	663.9E-03	665.9E-03	661.9E-03	668.7E-03	662.4E-03	666.9E-03
Sigma	2.0E-03	1.3E-03	979.8E-06	2.1E-03	1.1E-03	1.5E-03	1.6E-03	377.1E-06	1.9E-03	1.3E-03	2.5E-03	4.3E-03	1.5E-03

Drift Calculation

VSATL1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	4.8E-03	4.0E-03	12.4E-03	9.2E-03	800.0E-06	3.2E-03	5.2E-03	9.2E-03	3.6E-03	11.6E-03	8.0E-03	7.6E-03
6022	-	6.4E-03	6.8E-03	14.8E-03	10.8E-03	400.0E-06	2.8E-03	6.0E-03	7.6E-03	5.2E-03	12.4E-03	5.6E-03	11.2E-03
6023	-	6.8E-03	7.6E-03	13.2E-03	11.6E-03	2.0E-03	4.0E-03	9.2E-03	9.6E-03	5.6E-03	10.8E-03	2.4E-03	10.8E-03
Average	-	6.0E-03	6.1E-03	13.5E-03	10.5E-03	1.1E-03	3.3E-03	6.8E-03	8.8E-03	4.8E-03	11.6E-03	5.3E-03	9.9E-03
Sigma	-	864.1E-06	1.5E-03	997.8E-06	997.8E-06	679.9E-06	498.9E-06	1.7E-03	864.1E-06	864.1E-06	653.2E-06	2.3E-03	1.6E-03

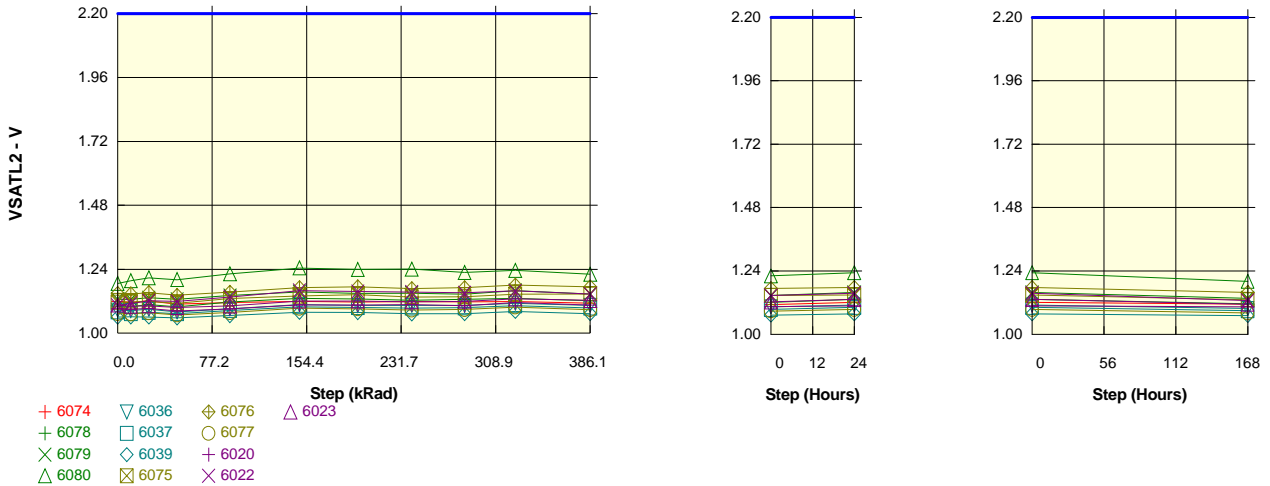
Parameter : Output Low Saturation 2 : VSATL2OUTA

Test conditions : Iout=200mA

Unit : V

Spec Limit Max : 2.20

Spec limits are represented in bold lines on the graphic.



Measurements

VSATL2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.12	1.12	1.12	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.12	1.12
ON_PROTON samples													
6078	1.10	1.10	1.11	1.10	1.12	1.13	1.13	1.12	1.13	1.13	1.12	1.13	1.12
6079	1.13	1.13	1.13	1.13	1.14	1.16	1.15	1.15	1.15	1.16	1.15	1.16	1.14
6080	1.19	1.20	1.21	1.20	1.22	1.24	1.24	1.24	1.23	1.24	1.22	1.23	1.20
Statistics													
Min	1.10	1.10	1.11	1.10	1.12	1.13	1.13	1.12	1.13	1.13	1.12	1.13	1.12
Max	1.19	1.20	1.21	1.20	1.22	1.24	1.24	1.24	1.23	1.24	1.22	1.23	1.20
Average	1.14	1.14	1.15	1.14	1.16	1.18	1.17	1.17	1.17	1.18	1.16	1.17	1.15
Sigma	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04

Drift Calculation

VSATL2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	-1.6E-03	5.6E-03	-2.8E-03	15.2E-03	29.6E-03	26.8E-03	22.0E-03	25.2E-03	29.6E-03	20.4E-03	31.2E-03	14.0E-03
6079	-	-800.0E-06	5.2E-03	-800.0E-06	13.6E-03	27.6E-03	21.2E-03	22.8E-03	18.8E-03	32.4E-03	19.6E-03	30.8E-03	9.6E-03
6080	-	10.4E-03	20.8E-03	14.4E-03	36.0E-03	58.0E-03	52.8E-03	53.6E-03	41.2E-03	49.2E-03	34.8E-03	46.8E-03	14.4E-03
Average	-	2.7E-03	10.5E-03	3.6E-03	21.6E-03	38.4E-03	33.6E-03	32.8E-03	28.4E-03	37.1E-03	24.9E-03	36.3E-03	12.7E-03
Sigma	-	5.5E-03	7.3E-03	7.7E-03	10.2E-03	13.9E-03	13.8E-03	14.7E-03	9.4E-03	8.7E-03	7.0E-03	7.4E-03	2.2E-03

Measurements

VSATL2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.12	1.12	1.12	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.12	1.12
ON_TID samples													
6036	1.09	1.09	1.09	1.08	1.09	1.11	1.10	1.10	1.10	1.11	1.10	1.11	1.10
6037	1.08	1.07	1.08	1.07	1.09	1.10	1.10	1.09	1.10	1.10	1.09	1.10	1.09
6039	1.06	1.06	1.06	1.06	1.07	1.08	1.08	1.07	1.07	1.08	1.07	1.08	1.07
Statistics													
Min	1.06	1.06	1.06	1.06	1.07	1.08	1.08	1.07	1.07	1.08	1.07	1.08	1.07
Max	1.09	1.09	1.09	1.08	1.09	1.11	1.10	1.10	1.10	1.11	1.10	1.11	1.10
Average	1.08	1.07	1.08	1.07	1.08	1.09	1.09	1.09	1.09	1.10	1.09	1.10	1.09
Sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Drift Calculation

VSATL2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	-1.2E-03	3.2E-03	-6.8E-03	6.0E-03	20.4E-03	17.6E-03	18.0E-03	17.6E-03	25.6E-03	18.0E-03	24.8E-03	12.0E-03
6037	-	-6.8E-03	-2.0E-03	-7.2E-03	5.2E-03	18.4E-03	16.0E-03	13.6E-03	15.2E-03	22.8E-03	14.4E-03	21.6E-03	9.6E-03
6039	-	800.0E-06	399.9E-06	-3.2E-03	5.6E-03	18.0E-03	17.2E-03	12.4E-03	12.8E-03	21.2E-03	12.8E-03	17.6E-03	10.8E-03
Average	-	-2.4E-03	533.3E-06	-5.7E-03	5.6E-03	18.9E-03	16.9E-03	14.7E-03	15.2E-03	23.2E-03	15.1E-03	21.3E-03	10.8E-03
Sigma	-	3.2E-03	2.1E-03	1.8E-03	326.6E-06	1.0E-03	679.8E-06	2.4E-03	2.0E-03	1.8E-03	2.2E-03	2.9E-03	979.8E-06

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

VSATL2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.12	1.12	1.12	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.12	1.12
OFF-PROTON samples													
6075	1.12	1.12	1.12	1.11	1.13	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.13
6076	1.15	1.15	1.15	1.14	1.15	1.17	1.17	1.17	1.17	1.18	1.17	1.18	1.16
6077	1.07	1.07	1.08	1.07	1.08	1.09	1.09	1.09	1.09	1.10	1.09	1.09	1.08
Statistics													
Min	1.07	1.07	1.08	1.07	1.08	1.09	1.09	1.09	1.09	1.10	1.09	1.09	1.08
Max	1.15	1.15	1.15	1.14	1.15	1.17	1.17	1.17	1.17	1.18	1.17	1.18	1.16
Average	1.11	1.11	1.12	1.11	1.12	1.13	1.14	1.13	1.13	1.14	1.14	1.14	1.12
Sigma	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03

Drift Calculation

VSATL2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	399.9E-06	3.6E-03	-4.4E-03	14.0E-03	23.2E-03	28.0E-03	20.0E-03	20.8E-03	30.8E-03	31.6E-03	32.8E-03	15.2E-03
6076	-	-1.2E-03	3.6E-03	-6.4E-03	4.8E-03	22.0E-03	25.6E-03	18.4E-03	22.0E-03	31.6E-03	25.2E-03	28.8E-03	10.4E-03
6077	-	-800.0E-06	3.2E-03	-4.8E-03	4.4E-03	20.4E-03	18.0E-03	13.6E-03	15.6E-03	24.8E-03	15.2E-03	21.2E-03	8.0E-03
Average	-	-533.3E-06	3.5E-03	-5.2E-03	7.7E-03	21.9E-03	23.9E-03	17.3E-03	19.5E-03	29.1E-03	24.0E-03	27.6E-03	11.2E-03
Sigma	-	679.8E-06	188.5E-06	864.1E-06	4.4E-03	1.1E-03	4.3E-03	2.7E-03	2.8E-03	3.0E-03	6.7E-03	4.8E-03	3.0E-03

Measurements

VSATL2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.12	1.12	1.12	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.12	1.12
OFF-TID samples													
6020	1.09	1.09	1.09	1.08	1.09	1.11	1.11	1.11	1.10	1.11	1.11	1.11	1.10
6022	1.10	1.11	1.12	1.12	1.14	1.16	1.16	1.15	1.15	1.16	1.15	1.16	1.13
6023	1.11	1.10	1.10	1.10	1.10	1.12	1.12	1.12	1.12	1.13	1.12	1.13	1.11
Statistics													
Min	1.09	1.09	1.09	1.08	1.09	1.11	1.11	1.11	1.10	1.11	1.11	1.11	1.10
Max	1.11	1.11	1.12	1.12	1.14	1.16	1.16	1.15	1.15	1.16	1.15	1.16	1.13
Average	1.10	1.10	1.11	1.10	1.11	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.12
Sigma	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01

Drift Calculation

VSATL2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	-2.4E-03	800.0E-06	-8.8E-03	-1.6E-03	14.0E-03	13.2E-03	14.4E-03	11.2E-03	22.0E-03	13.2E-03	16.0E-03	12.0E-03
6022	-	6.4E-03	17.2E-03	14.4E-03	31.2E-03	55.2E-03	51.6E-03	49.2E-03	47.2E-03	53.6E-03	42.4E-03	50.8E-03	23.2E-03
6023	-	-4.4E-03	-2.8E-03	-9.2E-03	-3.2E-03	15.2E-03	15.2E-03	12.4E-03	14.4E-03	23.2E-03	17.6E-03	27.2E-03	8.4E-03
Average	-	-133.3E-06	5.1E-03	-1.2E-03	8.8E-03	28.1E-03	26.7E-03	25.3E-03	24.3E-03	32.9E-03	24.4E-03	31.3E-03	14.5E-03
Sigma	-	4.7E-03	8.7E-03	11.0E-03	15.9E-03	19.1E-03	17.6E-03	16.9E-03	16.3E-03	14.6E-03	12.9E-03	14.5E-03	6.3E-03

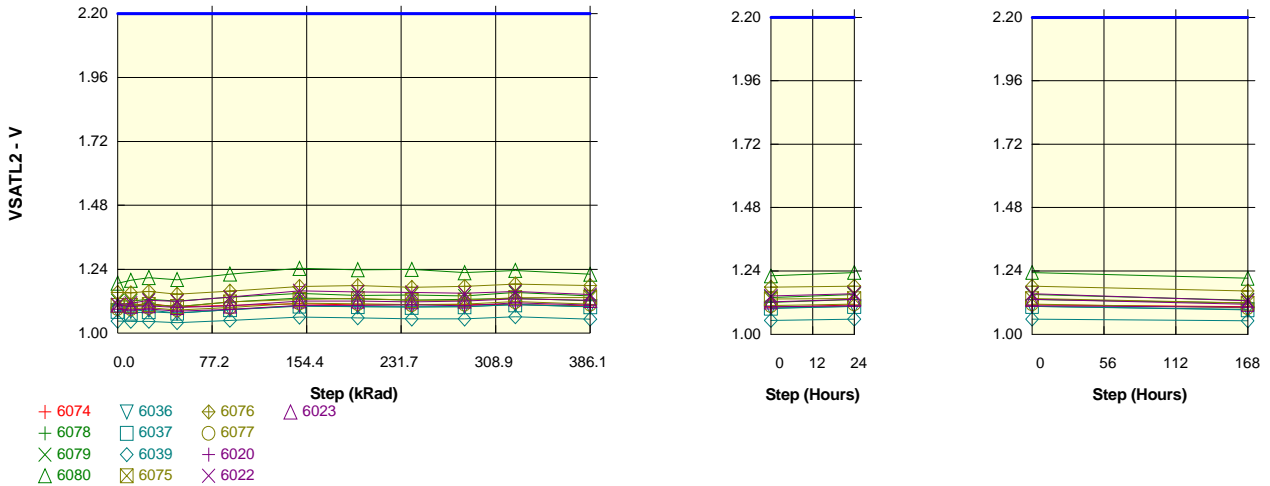
Parameter : Output Low Saturation 2 : VSATL2OUTB

Test conditions : Iout=200mA

Unit : V

Spec Limit Max : 2.20

Spec limits are represented in bold lines on the graphic.



Measurements

VSATL2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.11	1.11	1.11	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.10	1.11	1.11
ON_PROTON samples													
6078	1.10	1.10	1.11	1.10	1.12	1.13	1.13	1.12	1.13	1.13	1.12	1.13	1.12
6079	1.12	1.12	1.13	1.12	1.14	1.15	1.14	1.14	1.14	1.15	1.14	1.15	1.13
6080	1.19	1.20	1.21	1.20	1.22	1.24	1.24	1.24	1.23	1.24	1.22	1.23	1.21
Statistics													
Min	1.10	1.10	1.11	1.10	1.12	1.13	1.13	1.12	1.13	1.13	1.12	1.13	1.12
Max	1.19	1.20	1.21	1.20	1.22	1.24	1.24	1.24	1.23	1.24	1.22	1.23	1.21
Average	1.14	1.14	1.15	1.14	1.16	1.17	1.17	1.17	1.16	1.17	1.16	1.17	1.15
Sigma	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04

Drift Calculation

VSATL2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	-2.4E-03	5.2E-03	-3.6E-03	14.4E-03	28.8E-03	25.6E-03	21.2E-03	24.0E-03	28.4E-03	18.4E-03	29.6E-03	16.0E-03
6079	-	-1.2E-03	5.2E-03	-1.6E-03	13.2E-03	26.8E-03	19.6E-03	21.6E-03	17.6E-03	30.8E-03	18.0E-03	29.2E-03	7.6E-03
6080	-	10.8E-03	20.8E-03	13.2E-03	34.4E-03	56.0E-03	50.4E-03	52.0E-03	39.6E-03	47.6E-03	34.0E-03	46.8E-03	25.2E-03
Average	-	2.4E-03	10.4E-03	2.7E-03	20.7E-03	37.2E-03	31.9E-03	31.6E-03	27.1E-03	35.6E-03	23.5E-03	35.2E-03	16.3E-03
Sigma	-	6.0E-03	7.4E-03	7.5E-03	9.7E-03	13.3E-03	13.3E-03	14.4E-03	9.2E-03	8.5E-03	7.5E-03	8.2E-03	7.2E-03

Measurements

VSATL2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.11	1.11	1.11	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.10	1.11	1.11
ON_TID samples													
6036	1.08	1.08	1.09	1.08	1.09	1.10	1.10	1.10	1.10	1.11	1.10	1.11	1.09
6037	1.08	1.08	1.08	1.08	1.09	1.10	1.10	1.10	1.10	1.11	1.10	1.11	1.09
6039	1.04	1.04	1.04	1.04	1.05	1.06	1.06	1.05	1.05	1.06	1.05	1.06	1.05
Statistics													
Min	1.04	1.04	1.04	1.04	1.05	1.06	1.06	1.05	1.05	1.06	1.05	1.06	1.05
Max	1.08	1.08	1.09	1.08	1.09	1.10	1.10	1.10	1.10	1.11	1.10	1.11	1.09
Average	1.07	1.07	1.07	1.06	1.08	1.09	1.09	1.08	1.08	1.09	1.08	1.09	1.08
Sigma	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Drift Calculation

VSATL2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	-2.4E-03	2.0E-03	-9.2E-03	3.6E-03	18.4E-03	14.8E-03	15.2E-03	14.4E-03	22.0E-03	14.4E-03	21.2E-03	9.6E-03
6037	-	-6.0E-03	-7.99.9E-06	-6.0E-03	6.8E-03	20.0E-03	18.0E-03	16.0E-03	17.6E-03	25.6E-03	17.2E-03	24.4E-03	11.6E-03
6039	-	-400.1E-06	-400.1E-06	-5.2E-03	3.6E-03	15.2E-03	13.2E-03	8.8E-03	8.8E-03	16.8E-03	8.4E-03	12.8E-03	6.8E-03
Average	-	-2.9E-03	266.7E-06	-6.8E-03	4.7E-03	17.9E-03	15.3E-03	13.3E-03	13.6E-03	21.5E-03	13.3E-03	19.5E-03	9.3E-03
Sigma	-	2.3E-03	1.2E-03	1.7E-03	1.5E-03	2.0E-03	2.0E-03	3.2E-03	3.6E-03	3.6E-03	3.7E-03	4.9E-03	2.0E-03

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

VSATL2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.11	1.11	1.11	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.10	1.11	1.11
OFF-PROTON samples													
6075	1.10	1.10	1.11	1.10	1.12	1.13	1.13	1.12	1.12	1.13	1.13	1.14	1.12
6076	1.15	1.15	1.16	1.15	1.16	1.18	1.18	1.17	1.18	1.18	1.18	1.18	1.16
6077	1.09	1.09	1.10	1.09	1.10	1.11	1.11	1.11	1.11	1.12	1.11	1.12	1.10
Statistics													
Min	1.09	1.09	1.10	1.09	1.10	1.11	1.11	1.11	1.11	1.12	1.11	1.12	1.10
Max	1.15	1.15	1.16	1.15	1.16	1.18	1.18	1.17	1.18	1.18	1.18	1.18	1.16
Average	1.12	1.12	1.12	1.11	1.12	1.14	1.14	1.13	1.14	1.15	1.14	1.14	1.13
Sigma	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Drift Calculation

VSATL2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	400.1E-06	4.0E-03	-4.4E-03	13.6E-03	22.4E-03	26.8E-03	19.2E-03	19.6E-03	29.2E-03	30.0E-03	31.6E-03	14.4E-03
6076	-	-1.6E-03	3.6E-03	-6.4E-03	4.8E-03	22.0E-03	25.2E-03	18.8E-03	22.4E-03	31.6E-03	25.6E-03	29.2E-03	10.8E-03
6077	-	-800.0E-06	4.0E-03	-4.8E-03	4.8E-03	21.2E-03	18.4E-03	14.8E-03	16.8E-03	26.4E-03	16.8E-03	23.2E-03	8.8E-03
Average	-	-666.7E-06	3.9E-03	-5.2E-03	7.7E-03	21.9E-03	23.5E-03	17.6E-03	19.6E-03	29.1E-03	24.1E-03	28.0E-03	11.3E-03
Sigma	-	822.0E-06	188.6E-06	864.1E-06	4.1E-03	498.9E-06	3.6E-03	2.0E-03	2.3E-03	2.1E-03	5.5E-03	3.5E-03	2.3E-03

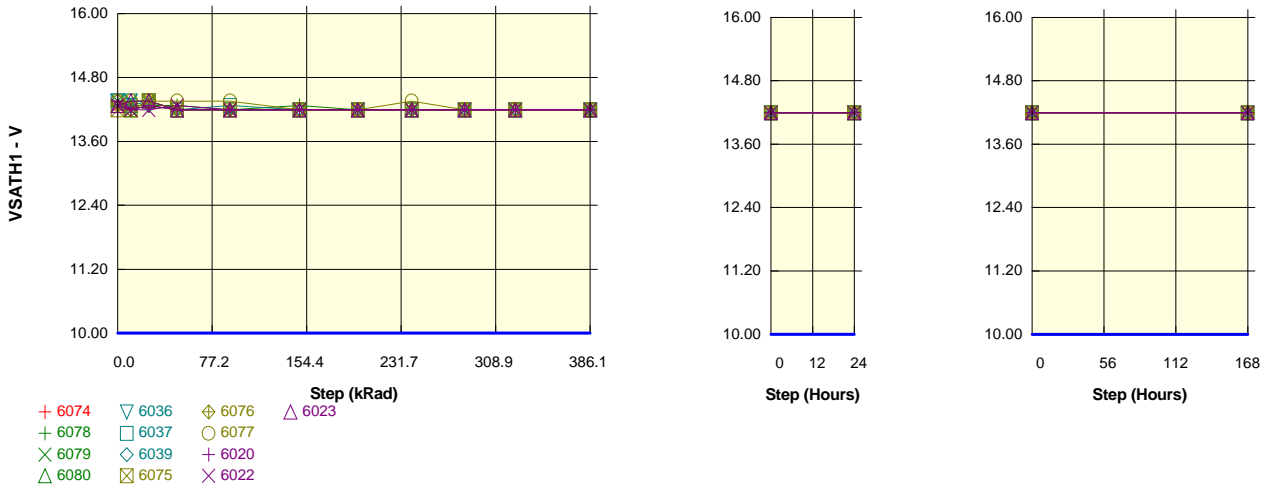
Measurements

VSATL2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	1.11	1.11	1.11	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.10	1.11	1.11
OFF-TID samples													
6020	1.09	1.09	1.09	1.08	1.09	1.10	1.10	1.11	1.10	1.11	1.11	1.11	1.10
6022	1.11	1.11	1.12	1.12	1.14	1.16	1.16	1.15	1.15	1.16	1.15	1.15	1.13
6023	1.11	1.10	1.10	1.10	1.10	1.12	1.12	1.12	1.12	1.13	1.12	1.13	1.11
Statistics													
Min	1.09	1.09	1.09	1.08	1.09	1.10	1.10	1.11	1.10	1.11	1.11	1.11	1.10
Max	1.11	1.11	1.12	1.12	1.14	1.16	1.16	1.15	1.15	1.16	1.15	1.15	1.13
Average	1.10	1.10	1.11	1.10	1.11	1.13	1.13	1.13	1.12	1.13	1.12	1.13	1.11
Sigma	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01

Drift Calculation

VSATL2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	-2.0E-03	1.2E-03	-7.6E-03	-399.9E-06	15.2E-03	14.4E-03	16.4E-03	13.6E-03	24.0E-03	15.6E-03	18.8E-03	13.6E-03
6022	-	5.6E-03	16.4E-03	12.4E-03	28.8E-03	52.4E-03	48.4E-03	46.0E-03	43.2E-03	50.0E-03	38.4E-03	47.2E-03	20.4E-03
6023	-	-4.8E-03	-2.8E-03	-9.2E-03	-3.2E-03	15.2E-03	14.8E-03	12.4E-03	14.8E-03	23.2E-03	17.6E-03	27.2E-03	8.0E-03
Average	-	-399.9E-06	4.9E-03	-1.5E-03	8.4E-03	27.6E-03	25.9E-03	24.9E-03	23.9E-03	32.4E-03	23.9E-03	31.1E-03	14.0E-03
Sigma	-	4.4E-03	8.3E-03	9.8E-03	14.5E-03	17.5E-03	15.9E-03	15.0E-03	13.7E-03	12.4E-03	10.3E-03	11.9E-03	5.1E-03

Parameter : Output High Saturation 1 : VSATH1OUTA
 Test conditions : Iout=-20mA
 Unit : V
 Spec Limit Min : 10.00
 Spec limits are represented in bold lines on the graphic.



Measurements

VSATH1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
ON PROTON samples													
6078	14.28	14.28	14.28	14.28	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6079	14.36	14.36	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6080	14.28	14.19	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Statistics													
Min	14.28	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Max	14.36	14.36	14.36	14.28	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Average	14.30	14.28	14.33	14.22	14.19	14.22	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Sigma	0.04	0.07	0.04	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	0.0E+00	0.0E+00	0.0E+00	-82.4E-03	0.0E+00	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03
6079	-	0.0E+00	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6080	-	-82.4E-03	82.5E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03
Average	-	-27.5E-03	27.5E-03	-82.4E-03	-109.9E-03	-82.4E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03
Sigma	-	38.8E-03	38.9E-03	67.3E-03	38.9E-03	67.3E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03

Measurements

VSATH1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
ON TID samples													
6036	14.36	14.36	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6037	14.36	14.28	14.36	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6039	14.36	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Statistics													
Min	14.36	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Max	14.36	14.36	14.36	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Average	14.36	14.28	14.33	14.19	14.22	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Sigma	0.00	0.07	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	0.0E+00	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6037	-	-82.5E-03	0.0E+00	-164.9E-03	-82.5E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6039	-	-164.9E-03	-82.5E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
Average	-	-82.5E-03	-27.5E-03	-164.9E-03	-137.4E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
Sigma	-	67.3E-03	38.9E-03	1.1E-09	38.8E-03	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

VSATH1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
OFF_PROTON samples													
6075	14.19	14.19	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6076	14.36	14.19	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6077	14.36	14.36	14.36	14.36	14.36	14.19	14.19	14.36	14.19	14.19	14.19	14.19	14.19
Statistics													
Min	14.19	14.19	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Max	14.36	14.36	14.36	14.36	14.36	14.19	14.19	14.36	14.19	14.19	14.19	14.19	14.19
Average	14.30	14.25	14.36	14.25	14.25	14.19	14.19	14.25	14.19	14.19	14.19	14.19	14.19
Sigma	0.08	0.08	0.00	0.08	0.08	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF_PROTON samples													
6075	-	0.0E+00	164.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6076	-	-164.9E-03	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6077	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-164.9E-03	-164.9E-03	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
Average	-	-55.0E-03	55.0E-03	-55.0E-03	-55.0E-03	-109.9E-03	-109.9E-03	-55.0E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03
Sigma	-	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03

Measurements

VSATH1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
OFF_TID samples													
6020	14.36	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6022	14.28	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6023	14.28	14.36	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Statistics													
Min	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Max	14.36	14.36	14.36	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Average	14.30	14.25	14.28	14.22	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Sigma	0.04	0.08	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH1OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF_TID samples													
6020	-	-164.9E-03	-82.5E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6022	-	-82.4E-03	-82.4E-03	0.0E+00	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03
6023	-	82.5E-03	82.5E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03	-82.4E-03
Average	-	-54.9E-03	-27.5E-03	-82.4E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03
Sigma	-	102.9E-03	77.8E-03	67.3E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03	38.9E-03

Parameter : Output High Saturation 1 : VSATH1OUTB
 Test conditions : Iout=-20mA
 Unit : V
 Spec Limit Min : 10.00
 Spec limits are represented in bold lines on the graphic.



Measurements

VSATH1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	14.28	14.28	14.36	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19
ON_PROTON samples													
6078	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6079	14.36	14.19	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6080	14.36	14.19	14.19	14.19	15.02	15.02	15.02	15.02	15.02	15.02	15.02	15.02	14.85
Statistics													
Min	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Max	14.36	14.19	14.36	14.19	15.02	15.02	15.02	15.02	15.02	15.02	15.02	15.02	14.85
Average	14.30	14.19	14.28	14.19	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.41
Sigma	0.08	0.00	0.07	0.00	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.31

Drift Calculation

VSATH1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	0.0E+00	82.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6079	-	-164.9E-03	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6080	-	-164.9E-03	-164.9E-03	-164.9E-03	659.6E-03	659.6E-03	659.6E-03	659.6E-03	658.5E-03	659.6E-03	659.6E-03	659.6E-03	494.7E-03
Average	-	-109.9E-03	-27.5E-03	-109.9E-03	164.9E-03	164.9E-03	164.9E-03	164.9E-03	164.5E-03	164.9E-03	164.9E-03	164.9E-03	109.9E-03
Sigma	-	77.7E-03	102.8E-03	77.7E-03	356.2E-03	356.2E-03	356.2E-03	356.2E-03	355.7E-03	356.2E-03	356.2E-03	356.2E-03	280.3E-03

Measurements

VSATH1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	14.28	14.28	14.36	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19
ON_TID samples													
6036	14.36	14.36	14.36	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6037	14.36	14.28	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6039	14.36	14.36	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Statistics													
Min	14.36	14.28	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Max	14.36	14.36	14.36	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Average	14.36	14.33	14.36	14.19	14.22	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Sigma	0.00	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	0.0E+00	0.0E+00	-164.9E-03	-82.5E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6037	-	-82.5E-03	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6039	-	0.0E+00	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
Average	-	-27.5E-03	0.0E+00	-164.9E-03	-137.4E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
Sigma	-	38.9E-03	0.0E+00	1.1E-09	38.8E-03	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil				Issue:	02

Measurements

VSATH1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	14.28	14.28	14.36	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19
OFF-PROTON samples													
6075	14.19	14.28	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6076	14.36	14.36	14.36	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6077	14.36	14.28	14.28	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Statistics													
Min	14.19	14.28	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Max	14.36	14.36	14.36	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Average	14.30	14.30	14.33	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Sigma	0.08	0.04	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	82.4E-03	164.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6076	-	0.0E+00	0.0E+00	-82.5E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6077	-	-82.5E-03	-82.5E-03	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
Average	-	-33.7E-06	27.5E-03	-27.5E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03	-109.9E-03
Sigma	-	67.3E-03	102.9E-03	38.9E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03	77.7E-03

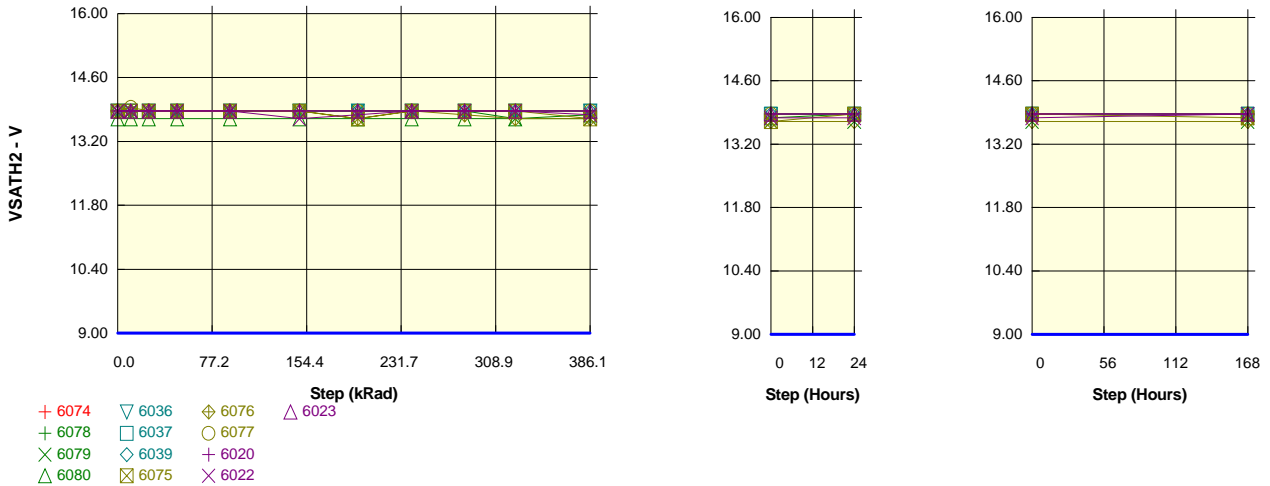
Measurements

VSATH1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	14.28	14.28	14.36	14.19	14.19	14.28	14.19	14.19	14.19	14.19	14.19	14.19	14.19
OFF-TID samples													
6020	14.36	14.19	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6022	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
6023	14.36	14.36	14.36	14.28	14.19	14.28	14.19	14.28	14.19	14.19	14.19	14.19	14.19
Statistics													
Min	14.36	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19	14.19
Max	14.36	14.36	14.36	14.28	14.19	14.28	14.19	14.28	14.19	14.19	14.19	14.19	14.19
Average	14.36	14.25	14.30	14.22	14.19	14.22	14.19	14.22	14.19	14.19	14.19	14.19	14.19
Sigma	0.00	0.08	0.08	0.04	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH1OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	-164.9E-03	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6022	-	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6023	-	0.0E+00	0.0E+00	-82.5E-03	-164.9E-03	-82.5E-03	-164.9E-03	-82.5E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
Average	-	-109.9E-03	-55.0E-03	-137.4E-03	-164.9E-03	-137.4E-03	-164.9E-03	-137.4E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
Sigma	-	77.7E-03	77.7E-03	38.8E-03	1.1E-09	38.8E-03	1.1E-09	38.8E-03	1.1E-09	1.1E-09	1.1E-09	1.1E-09	1.1E-09

Parameter : Output High Saturation 2 : VSATH2OUTA
 Test conditions : Iout=-200mA
 Unit : V
 Spec Limit Min : 9.00
 Spec limits are represented in bold lines on the graphic.



Measurements

VSATH2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
ON PROTON samples													
6078	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6079	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.70	13.70	13.70	13.70
6080	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.78	13.86	13.86
Statistics													
Min	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70
Max	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Average	13.81	13.81	13.81	13.81	13.81	13.81	13.81	13.81	13.81	13.76	13.78	13.81	13.81
Sigma	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08

Drift Calculation

VSATH2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6079	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6080	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	82.4E-03	164.9E-03	164.9E-03
Average	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-55.0E-03	-27.5E-03	0.0E+00	0.0E+00
Sigma	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	77.7E-03	102.8E-03	134.6E-03	134.6E-03

Measurements

VSATH2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
ON TID samples													
6036	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6037	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6039	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Statistics													
Min	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Max	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Average	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Sigma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6037	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6039	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Average	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Sigma	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VSATH2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
OFF-PROTON samples													
6075	13.86	13.86	13.86	13.86	13.86	13.86	13.70	13.86	13.86	13.86	13.70	13.86	13.78
6076	13.86	13.86	13.86	13.86	13.86	13.86	13.70	13.86	13.78	13.70	13.70	13.70	13.70
6077	13.86	13.95	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Statistics													
Min	13.86	13.86	13.86	13.86	13.86	13.86	13.70	13.86	13.78	13.70	13.70	13.70	13.70
Max	13.86	13.95	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Average	13.86	13.89	13.86	13.86	13.86	13.86	13.76	13.86	13.84	13.81	13.76	13.81	13.78
Sigma	0.00	0.04	0.00	0.00	0.00	0.00	0.08	0.00	0.04	0.08	0.08	0.08	0.07

Drift Calculation

VSATH2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-164.9E-03	0.0E+00	0.0E+00	0.0E+00	-164.9E-03	0.0E+00	-82.5E-03
6076	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-164.9E-03	0.0E+00	-82.5E-03	-164.9E-03	-164.9E-03	-164.9E-03	-164.9E-03
6077	-	82.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Average	-	27.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-109.9E-03	0.0E+00	-27.5E-03	-55.0E-03	-109.9E-03	-55.0E-03	-82.5E-03
Sigma	-	38.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	77.7E-03	0.0E+00	38.9E-03	77.7E-03	77.7E-03	77.7E-03	67.3E-03

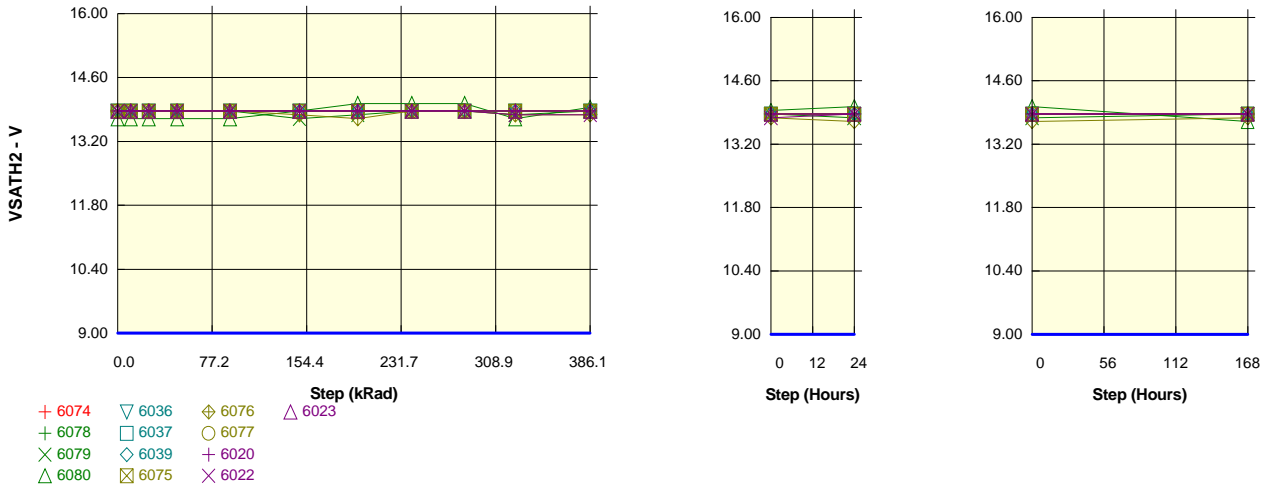
Measurements

VSATH2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
OFF-TID samples													
6020	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6022	13.86	13.86	13.86	13.86	13.86	13.70	13.78	13.86	13.86	13.86	13.78	13.78	13.86
6023	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Statistics													
Min	13.86	13.86	13.86	13.86	13.86	13.70	13.78	13.86	13.86	13.86	13.78	13.78	13.86
Max	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Average	13.86	13.86	13.86	13.86	13.86	13.81	13.84	13.86	13.86	13.86	13.84	13.84	13.86
Sigma	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.00	0.00	0.00	0.04	0.04	0.00

Drift Calculation

VSATH2OUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6022	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-164.9E-03	-82.5E-03	0.0E+00	0.0E+00	-82.5E-03	-82.5E-03	0.0E+00
6023	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Average	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-55.0E-03	-27.5E-03	0.0E+00	0.0E+00	0.0E+00	-27.5E-03	-27.5E-03
Sigma	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	77.7E-03	38.9E-03	0.0E+00	0.0E+00	0.0E+00	38.9E-03	38.9E-03

Parameter : Output High Saturation 2 : VSATH2OUTB
 Test conditions : Iout=-200mA
 Unit : V
 Spec Limit Min : 9.00
 Spec limits are represented in bold lines on the graphic.



Measurements

VSATH2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
ON PROTON samples													
6078	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6079	13.86	13.86	13.86	13.86	13.86	13.70	13.78	13.86	13.86	13.78	13.86	13.78	13.86
6080	13.70	13.70	13.70	13.70	13.70	13.86	14.03	14.03	14.03	13.70	13.95	14.03	13.70
Statistics													
Min	13.70	13.70	13.70	13.70	13.70	13.70	13.78	13.86	13.86	13.70	13.86	13.78	13.70
Max	13.86	13.86	13.86	13.86	13.86	13.86	14.03	14.03	14.03	13.86	13.95	14.03	13.86
Average	13.81	13.81	13.81	13.81	13.81	13.81	13.89	13.92	13.92	13.78	13.89	13.89	13.81
Sigma	0.08	0.08	0.08	0.08	0.08	0.08	0.10	0.08	0.08	0.07	0.04	0.10	0.08

Drift Calculation

VSATH2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6079	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-164.9E-03	-82.5E-03	0.0E+00	0.0E+00	-82.5E-03	0.0E+00	-82.5E-03	0.0E+00
6080	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	164.9E-03	329.8E-03	330.9E-03	329.8E-03	0.0E+00	247.3E-03	329.8E-03	0.0E+00
Average	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	82.4E-03	110.3E-03	109.9E-03	-27.5E-03	82.4E-03	82.4E-03	0.0E+00
Sigma	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	134.6E-03	178.1E-03	156.0E-03	155.5E-03	38.9E-03	116.6E-03	178.1E-03	0.0E+00

Measurements

VSATH2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
ON TID samples													
6036	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6037	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6039	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Statistics													
Min	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Max	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Average	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Sigma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Drift Calculation

VSATH2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6037	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6039	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Average	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Sigma	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VSATH2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
OFF-PROTON samples													
6075	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6076	13.86	13.86	13.86	13.86	13.86	13.78	13.70	13.86	13.86	13.78	13.78	13.70	13.78
6077	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Statistics													
Min	13.86	13.86	13.86	13.86	13.86	13.78	13.70	13.86	13.86	13.78	13.78	13.70	13.78
Max	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Average	13.86	13.86	13.86	13.86	13.86	13.84	13.81	13.86	13.86	13.84	13.84	13.81	13.84
Sigma	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.00	0.00	0.04	0.04	0.08	0.04

Drift Calculation

VSATH2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-PROTON samples													
6075	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6076	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-82.5E-03	-164.9E-03	0.0E+00	0.0E+00	-82.5E-03	-82.5E-03	-164.9E-03	-82.5E-03
6077	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Average	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-27.5E-03	-55.0E-03	0.0E+00	0.0E+00	-27.5E-03	-27.5E-03	-55.0E-03	-27.5E-03
Sigma	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	38.9E-03	77.7E-03	0.0E+00	0.0E+00	38.9E-03	38.9E-03	77.7E-03	38.9E-03

Measurements

VSATH2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
OFF-TID samples													
6020	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
6022	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.78	13.78	13.86	13.86
6023	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Statistics													
Min	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.78	13.78	13.86	13.86
Max	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86
Average	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.86	13.84	13.84	13.86	13.86
Sigma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00

Drift Calculation

VSATH2OUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF-TID samples													
6020	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6022	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-82.5E-03	-82.5E-03	0.0E+00	0.0E+00
6023	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Average	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-27.5E-03	-27.5E-03	0.0E+00	0.0E+00
Sigma	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	38.9E-03	38.9E-03	0.0E+00	0.0E+00

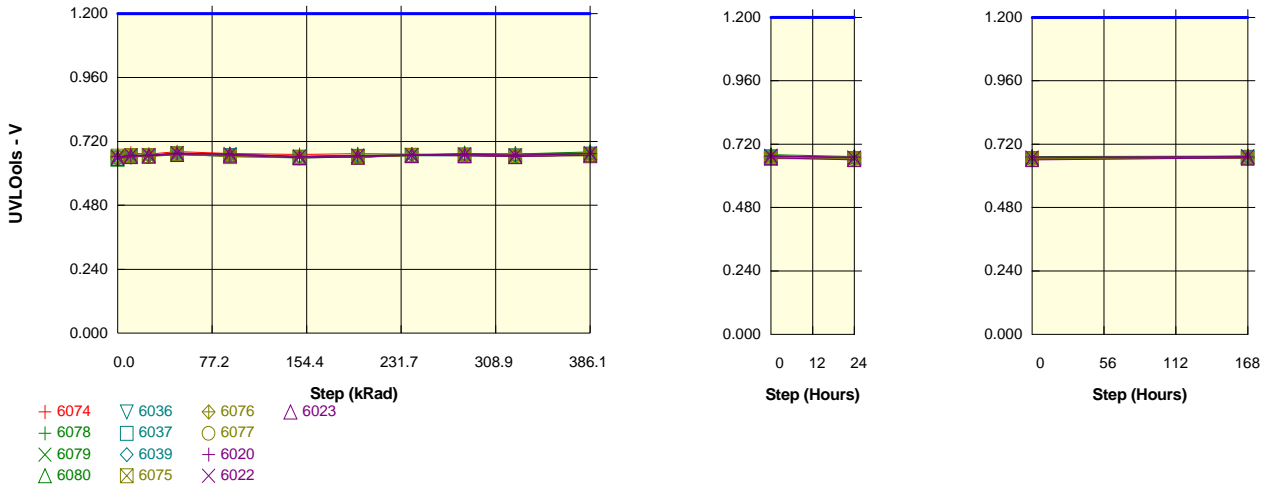
Parameter : Under Voltage Lockout Output Low Saturation Voltage : UVLOoIsOUTA

Test conditions : Iout=20mA

Unit : V

Spec Limit Max : 1.200

Spec limits are represented in bold lines on the graphic.



Measurements

UVLOoIsOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	0.670	0.676	0.672	0.682	0.675	0.671	0.674	0.672	0.672	0.673	0.677	0.666	0.675
ON_PROTON samples													
6078	0.664	0.670	0.668	0.675	0.668	0.662	0.665	0.670	0.669	0.668	0.674	0.666	0.673
6079	0.656	0.664	0.665	0.672	0.668	0.663	0.667	0.668	0.671	0.665	0.673	0.665	0.672
6080	0.654	0.665	0.667	0.676	0.670	0.665	0.668	0.670	0.675	0.673	0.681	0.673	0.675
Statistics													
Min	0.654	0.664	0.665	0.672	0.668	0.662	0.665	0.668	0.669	0.665	0.673	0.665	0.672
Max	0.664	0.670	0.668	0.676	0.670	0.665	0.668	0.670	0.675	0.673	0.681	0.673	0.675
Average	0.658	0.666	0.667	0.674	0.668	0.663	0.667	0.669	0.672	0.669	0.676	0.668	0.673
Sigma	0.005	0.003	0.001	0.002	0.001	0.001	0.001	0.001	0.003	0.003	0.004	0.004	0.001

Drift Calculation

UVLOoIsOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	5.2E-03	4.0E-03	10.8E-03	3.2E-03	-2.0E-03	800.0E-06	5.6E-03	4.4E-03	3.6E-03	9.6E-03	1.6E-03	8.4E-03
6079	-	7.6E-03	8.8E-03	16.0E-03	11.6E-03	6.8E-03	11.2E-03	12.4E-03	15.2E-03	9.2E-03	16.8E-03	8.8E-03	16.0E-03
6080	-	11.2E-03	13.6E-03	22.4E-03	16.4E-03	11.2E-03	14.8E-03	16.0E-03	21.6E-03	19.6E-03	27.2E-03	19.6E-03	21.2E-03
Average	-	8.0E-03	8.8E-03	16.4E-03	10.4E-03	5.3E-03	8.9E-03	11.3E-03	13.7E-03	10.8E-03	17.9E-03	10.0E-03	15.2E-03
Sigma	-	2.5E-03	3.9E-03	4.7E-03	5.5E-03	5.5E-03	5.9E-03	4.3E-03	7.1E-03	6.6E-03	7.2E-03	7.4E-03	5.3E-03

Measurements

UVLOoIsOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	0.670	0.676	0.672	0.682	0.675	0.671	0.674	0.672	0.672	0.673	0.677	0.666	0.675
ON_TID samples													
6036	0.658	0.665	0.665	0.674	0.667	0.660	0.664	0.668	0.669	0.666	0.672	0.666	0.671
6037	0.656	0.667	0.666	0.672	0.664	0.658	0.662	0.667	0.666	0.663	0.670	0.663	0.670
6039	0.655	0.661	0.666	0.671	0.668	0.662	0.663	0.670	0.670	0.666	0.673	0.667	0.671
Statistics													
Min	0.655	0.661	0.665	0.671	0.664	0.658	0.662	0.667	0.666	0.663	0.670	0.663	0.670
Max	0.658	0.667	0.666	0.674	0.668	0.662	0.664	0.670	0.670	0.666	0.673	0.667	0.671
Average	0.656	0.664	0.665	0.672	0.666	0.660	0.663	0.668	0.669	0.665	0.672	0.665	0.671
Sigma	0.001	0.002	0.000	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.000

Drift Calculation

UVLOoIsOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	6.4E-03	6.4E-03	15.6E-03	8.4E-03	1.6E-03	6.0E-03	9.2E-03	10.8E-03	7.2E-03	14.0E-03	7.2E-03	12.8E-03
6037	-	10.8E-03	10.0E-03	15.6E-03	8.0E-03	2.0E-03	6.0E-03	10.8E-03	10.4E-03	7.2E-03	14.4E-03	7.2E-03	14.0E-03
6039	-	6.4E-03	10.8E-03	16.0E-03	12.8E-03	6.8E-03	8.4E-03	14.8E-03	15.2E-03	10.8E-03	18.0E-03	12.4E-03	16.0E-03
Average	-	7.9E-03	9.1E-03	15.7E-03	9.7E-03	3.5E-03	6.8E-03	11.6E-03	12.1E-03	8.4E-03	15.5E-03	8.9E-03	14.3E-03
Sigma	-	2.1E-03	1.9E-03	188.6E-06	2.2E-03	2.4E-03	1.1E-03	2.4E-03	2.2E-03	1.7E-03	1.8E-03	2.5E-03	1.3E-03

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

UVLOolsOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	0.670	0.676	0.672	0.682	0.675	0.671	0.674	0.672	0.672	0.673	0.677	0.666	0.675
OFF PROTON samples													
6075	0.665	0.667	0.667	0.673	0.663	0.661	0.660	0.668	0.669	0.665	0.666	0.664	0.667
6076	0.663	0.666	0.665	0.673	0.668	0.661	0.661	0.668	0.668	0.665	0.670	0.666	0.669
6077	0.659	0.664	0.664	0.670	0.666	0.659	0.662	0.667	0.667	0.663	0.670	0.665	0.668
Statistics													
Min	0.659	0.664	0.664	0.670	0.663	0.659	0.660	0.667	0.667	0.663	0.666	0.664	0.667
Max	0.665	0.667	0.667	0.673	0.668	0.661	0.662	0.668	0.669	0.665	0.670	0.666	0.669
Average	0.662	0.666	0.665	0.672	0.666	0.660	0.661	0.668	0.668	0.664	0.669	0.665	0.668
Sigma	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.000	0.001	0.001	0.002	0.001	0.001

Drift Calculation

UVLOolsOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	2.0E-03	2.0E-03	8.0E-03	-2.4E-03	-4.4E-03	-5.2E-03	2.8E-03	3.6E-03	0.0E+00	800.0E-06	-1.6E-03	2.0E-03
6076	-	3.2E-03	2.4E-03	10.0E-03	4.8E-03	-2.0E-03	-2.0E-03	5.6E-03	4.8E-03	2.0E-03	6.8E-03	3.2E-03	6.0E-03
6077	-	4.8E-03	4.4E-03	11.2E-03	7.2E-03	-400.0E-06	2.8E-03	8.0E-03	8.0E-03	4.0E-03	10.8E-03	5.6E-03	9.2E-03
Average	-	3.3E-03	2.9E-03	9.7E-03	3.2E-03	-2.3E-03	-1.5E-03	5.5E-03	5.5E-03	2.0E-03	6.1E-03	2.4E-03	5.7E-03
Sigma	-	1.1E-03	1.0E-03	1.3E-03	4.1E-03	1.6E-03	3.3E-03	2.1E-03	1.9E-03	1.6E-03	4.1E-03	3.0E-03	2.9E-03

Measurements

UVLOolsOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	0.670	0.676	0.672	0.682	0.675	0.671	0.674	0.672	0.672	0.673	0.677	0.666	0.675
OFF TID samples													
6020	0.663	0.668	0.668	0.676	0.672	0.664	0.667	0.670	0.673	0.668	0.675	0.671	0.672
6022	0.661	0.668	0.668	0.676	0.673	0.663	0.666	0.669	0.670	0.668	0.675	0.668	0.673
6023	0.657	0.664	0.665	0.671	0.669	0.659	0.662	0.667	0.667	0.664	0.669	0.661	0.668
Statistics													
Min	0.657	0.664	0.665	0.671	0.669	0.659	0.662	0.667	0.667	0.664	0.669	0.661	0.668
Max	0.663	0.668	0.668	0.676	0.673	0.664	0.667	0.670	0.673	0.668	0.675	0.671	0.673
Average	0.660	0.666	0.667	0.674	0.671	0.662	0.665	0.669	0.670	0.667	0.673	0.667	0.671
Sigma	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.003	0.004	0.002

Drift Calculation

UVLOolsOUTA	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	5.2E-03	4.8E-03	12.8E-03	9.6E-03	1.2E-03	4.0E-03	6.8E-03	10.0E-03	5.2E-03	12.4E-03	8.4E-03	8.8E-03
6022	-	6.8E-03	7.6E-03	15.6E-03	12.0E-03	2.4E-03	4.8E-03	8.4E-03	9.6E-03	7.2E-03	14.4E-03	7.6E-03	12.4E-03
6023	-	6.4E-03	8.0E-03	13.6E-03	11.6E-03	2.0E-03	4.4E-03	10.0E-03	9.6E-03	6.4E-03	11.6E-03	3.6E-03	11.2E-03
Average	-	6.1E-03	6.8E-03	14.0E-03	11.1E-03	1.9E-03	4.4E-03	8.4E-03	9.7E-03	6.3E-03	12.8E-03	6.5E-03	10.8E-03
Sigma	-	679.9E-06	1.4E-03	1.2E-03	1.0E-03	498.9E-06	326.6E-06	1.3E-03	188.5E-06	821.9E-06	1.2E-03	2.1E-03	1.5E-03

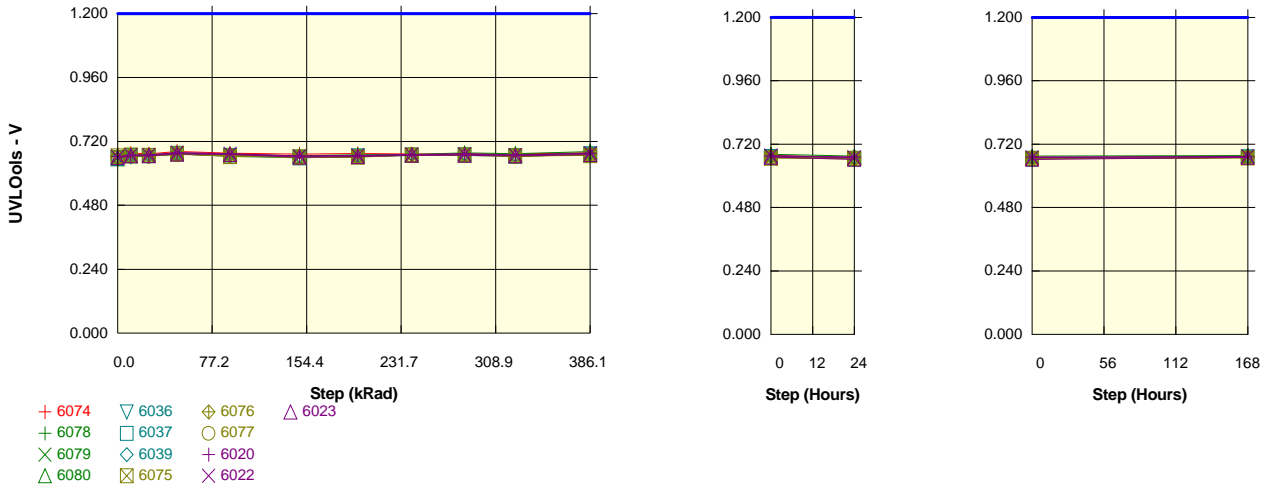
Parameter : Under Voltage Lockout Output Low Saturation Voltage : UVLOoIsOUTB

Test conditions : Iout=20mA

Unit : V

Spec Limit Max : 1.200

Spec limits are represented in bold lines on the graphic.



Measurements

UVLOoIsOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	0.672	0.677	0.673	0.683	0.676	0.672	0.675	0.673	0.674	0.674	0.678	0.667	0.676
ON_PROTON samples													
6078	0.666	0.671	0.669	0.676	0.669	0.664	0.666	0.671	0.670	0.669	0.675	0.667	0.674
6079	0.656	0.664	0.665	0.672	0.668	0.663	0.668	0.669	0.672	0.666	0.673	0.665	0.672
6080	0.655	0.666	0.668	0.677	0.672	0.666	0.670	0.671	0.677	0.674	0.682	0.675	0.677
Statistics													
Min	0.655	0.664	0.665	0.672	0.668	0.663	0.666	0.669	0.670	0.666	0.673	0.665	0.672
Max	0.666	0.671	0.669	0.677	0.672	0.666	0.670	0.671	0.677	0.674	0.682	0.675	0.677
Average	0.659	0.667	0.668	0.675	0.669	0.664	0.668	0.670	0.673	0.670	0.677	0.669	0.675
Sigma	0.005	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.003	0.003	0.004	0.004	0.002

Drift Calculation

UVLOoIsOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	4.8E-03	3.2E-03	10.4E-03	3.2E-03	-2.4E-03	400.0E-06	5.2E-03	4.4E-03	3.2E-03	9.2E-03	1.2E-03	8.4E-03
6079	-	7.6E-03	8.8E-03	16.0E-03	11.2E-03	6.8E-03	11.2E-03	12.4E-03	15.2E-03	9.2E-03	16.8E-03	8.8E-03	16.0E-03
6080	-	11.2E-03	13.6E-03	22.4E-03	16.8E-03	11.6E-03	15.2E-03	16.0E-03	22.0E-03	19.2E-03	27.2E-03	20.0E-03	22.4E-03
Average	-	7.9E-03	8.5E-03	16.3E-03	10.4E-03	5.3E-03	8.9E-03	11.2E-03	13.9E-03	10.5E-03	17.7E-03	10.0E-03	15.6E-03
Sigma	-	2.6E-03	4.2E-03	4.9E-03	5.6E-03	5.8E-03	6.3E-03	4.5E-03	7.2E-03	6.6E-03	7.4E-03	7.7E-03	5.7E-03

Measurements

UVLOoIsOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	0.672	0.677	0.673	0.683	0.676	0.672	0.675	0.673	0.674	0.674	0.678	0.667	0.676
ON_TID samples													
6036	0.660	0.666	0.666	0.675	0.668	0.661	0.666	0.668	0.670	0.667	0.674	0.667	0.672
6037	0.657	0.668	0.667	0.673	0.665	0.659	0.663	0.668	0.668	0.664	0.671	0.664	0.671
6039	0.656	0.662	0.666	0.672	0.668	0.662	0.664	0.670	0.671	0.666	0.674	0.668	0.672
Statistics													
Min	0.656	0.662	0.666	0.672	0.665	0.659	0.663	0.668	0.668	0.664	0.671	0.664	0.671
Max	0.660	0.668	0.667	0.675	0.668	0.662	0.666	0.670	0.671	0.667	0.674	0.668	0.672
Average	0.657	0.666	0.666	0.673	0.667	0.661	0.664	0.669	0.670	0.666	0.673	0.666	0.672
Sigma	0.002	0.002	0.000	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000

Drift Calculation

UVLOoIsOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	6.8E-03	6.0E-03	15.6E-03	8.4E-03	1.6E-03	6.0E-03	8.8E-03	10.4E-03	7.2E-03	14.0E-03	7.2E-03	12.8E-03
6037	-	11.2E-03	10.0E-03	16.0E-03	8.0E-03	2.0E-03	6.0E-03	10.8E-03	10.8E-03	7.6E-03	14.4E-03	7.6E-03	14.4E-03
6039	-	6.4E-03	10.4E-03	16.0E-03	12.4E-03	6.4E-03	8.4E-03	14.4E-03	15.2E-03	10.4E-03	17.6E-03	12.0E-03	15.6E-03
Average	-	8.1E-03	8.8E-03	15.9E-03	9.6E-03	3.3E-03	6.8E-03	11.3E-03	12.1E-03	8.4E-03	15.3E-03	8.9E-03	14.3E-03
Sigma	-	2.2E-03	2.0E-03	188.6E-06	2.0E-03	2.2E-03	1.1E-03	2.3E-03	2.2E-03	1.4E-03	1.6E-03	2.2E-03	1.1E-03

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

UVLOolsOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	0.672	0.677	0.673	0.683	0.676	0.672	0.675	0.673	0.674	0.674	0.678	0.667	0.676
OFF PROTON samples													
6075	0.666	0.668	0.668	0.674	0.664	0.662	0.661	0.669	0.670	0.666	0.667	0.665	0.668
6076	0.665	0.668	0.667	0.674	0.670	0.663	0.663	0.670	0.670	0.666	0.672	0.668	0.671
6077	0.660	0.665	0.664	0.671	0.667	0.660	0.663	0.668	0.668	0.664	0.671	0.666	0.669
Statistics													
Min	0.660	0.665	0.664	0.671	0.664	0.660	0.661	0.668	0.668	0.664	0.667	0.665	0.668
Max	0.666	0.668	0.668	0.674	0.670	0.663	0.663	0.670	0.670	0.666	0.672	0.668	0.671
Average	0.664	0.667	0.666	0.673	0.667	0.661	0.662	0.669	0.669	0.665	0.670	0.666	0.669
Sigma	0.003	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001

Drift Calculation

UVLOolsOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	2.0E-03	1.6E-03	7.6E-03	-2.8E-03	-4.4E-03	-5.2E-03	2.8E-03	3.6E-03	-400.0E-06	800.0E-06	-1.6E-03	1.6E-03
6076	-	3.2E-03	2.0E-03	9.6E-03	4.8E-03	-2.0E-03	-2.0E-03	5.2E-03	4.8E-03	1.6E-03	6.8E-03	3.2E-03	6.0E-03
6077	-	4.8E-03	4.4E-03	11.2E-03	7.2E-03	-400.0E-06	2.8E-03	8.4E-03	8.0E-03	4.0E-03	10.8E-03	5.6E-03	9.2E-03
Average	-	3.3E-03	2.7E-03	9.5E-03	3.1E-03	-2.3E-03	-1.5E-03	5.5E-03	5.5E-03	1.7E-03	6.1E-03	2.4E-03	5.6E-03
Sigma	-	1.1E-03	1.2E-03	1.5E-03	4.3E-03	1.6E-03	3.3E-03	2.3E-03	1.9E-03	1.8E-03	4.1E-03	3.0E-03	3.1E-03

Measurements

UVLOolsOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	0.672	0.677	0.673	0.683	0.676	0.672	0.675	0.673	0.674	0.674	0.678	0.667	0.676
OFF TID samples													
6020	0.664	0.669	0.668	0.677	0.673	0.665	0.668	0.670	0.674	0.669	0.676	0.672	0.672
6022	0.662	0.669	0.670	0.678	0.674	0.664	0.667	0.671	0.672	0.669	0.676	0.670	0.674
6023	0.659	0.666	0.667	0.673	0.671	0.661	0.664	0.669	0.669	0.666	0.671	0.663	0.670
Statistics													
Min	0.659	0.666	0.667	0.673	0.671	0.661	0.664	0.669	0.669	0.666	0.671	0.663	0.670
Max	0.664	0.669	0.670	0.678	0.674	0.665	0.668	0.671	0.674	0.669	0.676	0.672	0.674
Average	0.661	0.668	0.668	0.676	0.673	0.664	0.666	0.670	0.672	0.668	0.674	0.668	0.672
Sigma	0.002	0.001	0.001	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.003	0.004	0.002

Drift Calculation

UVLOolsOUTB	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	5.2E-03	4.8E-03	13.2E-03	9.6E-03	1.6E-03	4.0E-03	6.8E-03	10.4E-03	5.2E-03	12.4E-03	8.4E-03	8.8E-03
6022	-	7.6E-03	8.0E-03	16.0E-03	12.4E-03	2.8E-03	5.2E-03	9.2E-03	10.4E-03	7.6E-03	14.8E-03	8.0E-03	12.8E-03
6023	-	6.8E-03	7.6E-03	13.6E-03	11.6E-03	2.0E-03	4.4E-03	9.6E-03	9.6E-03	6.4E-03	11.6E-03	3.6E-03	11.2E-03
Average	-	6.5E-03	6.8E-03	14.3E-03	11.2E-03	2.1E-03	4.5E-03	8.5E-03	10.1E-03	6.4E-03	12.9E-03	6.7E-03	10.9E-03
Sigma	-	997.8E-06	1.4E-03	1.2E-03	1.2E-03	498.9E-06	498.9E-06	1.2E-03	377.1E-06	979.8E-06	1.4E-03	2.2E-03	1.6E-03

Parameter : Start Threshold Voltage : VSTART

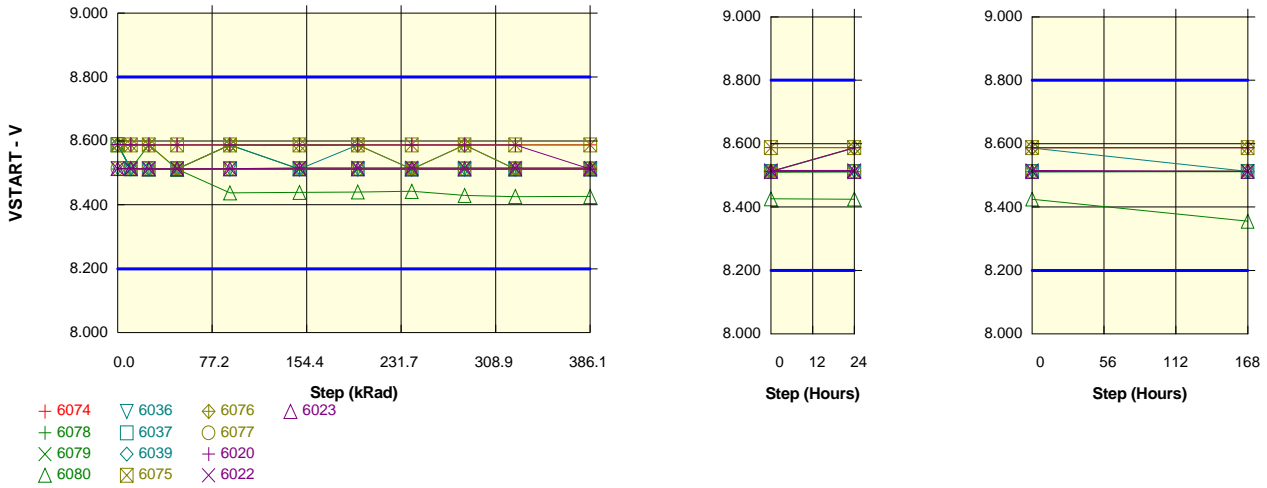
Test conditions :

Unit : V

Spec Limit Min : 8.200

Spec Limit Max : 8.800

Spec limits are represented in bold lines on the graphic.



Measurements

VSTART	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588
ON PROTON samples													
6078	8.513	8.513	8.513	8.512	8.512	8.512	8.512	8.512	8.512	8.512	8.511	8.511	8.512
6079	8.588	8.513	8.588	8.513	8.587	8.512	8.512	8.512	8.511	8.512	8.511	8.512	8.513
6080	8.588	8.513	8.512	8.512	8.438	8.439	8.440	8.442	8.430	8.426	8.426	8.425	8.356
Statistics													
Min	8.513	8.513	8.512	8.512	8.438	8.439	8.440	8.442	8.430	8.426	8.426	8.425	8.356
Max	8.588	8.513	8.588	8.513	8.587	8.512	8.512	8.512	8.512	8.512	8.511	8.512	8.513
Average	8.563	8.513	8.537	8.512	8.512	8.488	8.488	8.489	8.484	8.483	8.483	8.483	8.460
Sigma	0.036	0.000	0.036	0.000	0.061	0.034	0.034	0.033	0.039	0.040	0.040	0.041	0.074

Drift Calculation

VSTART	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	412.0E-06	25.7E-06	-225.1E-06	-383.4E-06	-320.4E-06	-533.1E-06	-784.9E-06	-796.3E-06	-914.6E-06	-1.4E-03	-1.2E-03	-538.8E-06
6079	-	-75.3E-03	-809.7E-06	-75.9E-03	-1.4E-03	-76.4E-03	-76.6E-03	-76.8E-03	-77.1E-03	-76.9E-03	-77.3E-03	-76.9E-03	-75.5E-03
6080	-	-75.4E-03	-76.4E-03	-76.5E-03	-150.6E-03	-149.2E-03	-148.0E-03	-145.8E-03	-158.5E-03	-162.2E-03	-161.8E-03	-162.9E-03	-232.5E-03
Average	-	-50.1E-03	-25.7E-03	-50.9E-03	-50.8E-03	-75.3E-03	-75.1E-03	-74.5E-03	-78.8E-03	-80.0E-03	-80.4E-03	-80.4E-03	-102.8E-03
Sigma	-	35.7E-03	35.8E-03	35.8E-03	70.6E-03	60.8E-03	60.2E-03	59.2E-03	64.4E-03	65.9E-03	65.5E-03	66.1E-03	96.6E-03

Measurements

VSTART	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074 REF	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588
ON TID samples													
6036	8.514	8.513	8.513	8.513	8.512	8.512	8.512	8.512	8.512	8.512	8.512	8.512	8.512
6037	8.589	8.513	8.513	8.513	8.513	8.513	8.513	8.512	8.512	8.512	8.512	8.512	8.512
6039	8.589	8.514	8.513	8.513	8.587	8.512	8.587	8.512	8.587	8.512	8.511	8.587	8.513
Statistics													
Min	8.514	8.513	8.513	8.513	8.512	8.512	8.512	8.512	8.512	8.512	8.511	8.512	8.512
Max	8.589	8.514	8.513	8.513	8.587	8.513	8.587	8.512	8.587	8.512	8.512	8.587	8.513
Average	8.564	8.513	8.513	8.513	8.537	8.512	8.537	8.512	8.537	8.512	8.512	8.537	8.512
Sigma	0.035	0.000	0.000	0.000	0.035	0.000	0.035	0.000	0.035	0.000	0.000	0.035	0.000

Drift Calculation

VSTART	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-715.3E-06	-1.1E-03	-1.4E-03	-1.7E-03	-1.5E-03	-1.6E-03	-1.7E-03	-1.8E-03	-2.0E-03	-1.9E-03	-2.0E-03	-1.8E-03
6037	-	-75.7E-03	-76.2E-03	-76.3E-03	-76.4E-03	-76.5E-03	-76.6E-03	-76.7E-03	-76.7E-03	-76.9E-03	-76.9E-03	-76.9E-03	-77.0E-03
6039	-	-75.4E-03	-76.1E-03	-76.3E-03	-1.7E-03	-76.8E-03	-2.0E-03	-77.3E-03	-2.1E-03	-77.4E-03	-77.7E-03	-2.3E-03	-76.3E-03
Average	-	-50.6E-03	-51.1E-03	-51.3E-03	-26.6E-03	-51.6E-03	-26.7E-03	-51.9E-03	-26.9E-03	-52.1E-03	-52.2E-03	-27.1E-03	-51.7E-03
Sigma	-	35.3E-03	35.4E-03	35.3E-03	35.2E-03	35.4E-03	35.2E-03	35.5E-03	35.3E-03	35.4E-03	35.5E-03	35.3E-03	35.3E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VSTART	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588
OFF PROTON samples													
6075	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.587	8.587	8.588	8.587	8.588
6076	8.588	8.588	8.588	8.513	8.587	8.588	8.588	8.513	8.587	8.512	8.512	8.587	8.587
6077	8.514	8.514	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.513
Statistics													
Min	8.514	8.514	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.512	8.512	8.513	8.513
Max	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.587	8.587	8.588	8.587	8.588
Average	8.563	8.563	8.563	8.538	8.563	8.563	8.563	8.538	8.563	8.538	8.538	8.563	8.563
Sigma	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035

Drift Calculation

VSTART	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	60.1E-06	-244.1E-06	-320.4E-06	-122.1E-06	-297.5E-06	-165.9E-06	-394.8E-06	-446.3E-06	-555.0E-06	-318.5E-06	-473.0E-06	-261.3E-06
6076	-	90.6E-06	-3.8E-06	-75.1E-03	-183.1E-06	-139.2E-06	-97.3E-06	-75.1E-03	-249.9E-06	-75.2E-03	-75.2E-03	-275.6E-06	-156.4E-06
6077	-	18.1E-06	-270.8E-06	-206.9E-06	-310.9E-06	-426.3E-06	-382.4E-06	-538.8E-06	-545.5E-06	-662.8E-06	-663.8E-06	-623.7E-06	-343.3E-06
Average	-	56.3E-06	-172.9E-06	-25.2E-03	-205.4E-06	-287.7E-06	-215.2E-06	-25.3E-03	-413.9E-06	-25.5E-03	-25.4E-03	-457.4E-06	-253.7E-06
Sigma	-	29.7E-06	120.1E-06	35.3E-03	78.7E-06	117.4E-06	121.5E-06	35.2E-03	122.9E-06	35.2E-03	35.2E-03	142.5E-06	76.5E-06

Measurements

VSTART	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588	8.588
OFF TID samples													
6020	8.589	8.588	8.588	8.588	8.587	8.587	8.587	8.587	8.587	8.587	8.512	8.587	8.587
6022	8.514	8.513	8.513	8.513	8.514	8.516	8.516	8.516	8.516	8.516	8.515	8.515	8.513
6023	8.514	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.512	8.513	8.513	8.513
Statistics													
Min	8.514	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.513	8.512	8.512	8.513	8.513
Max	8.589	8.588	8.588	8.588	8.587	8.587	8.587	8.587	8.587	8.587	8.515	8.587	8.587
Average	8.539	8.538	8.538	8.538	8.538	8.539	8.539	8.539	8.539	8.538	8.513	8.538	8.538
Sigma	0.035	0.035	0.035	0.035	0.035	0.035	0.034	0.035	0.034	0.034	0.001	0.034	0.035

Drift Calculation

VSTART	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-658.0E-06	-1.1E-03	-1.1E-03	-1.4E-03	-1.4E-03	-1.4E-03	-1.3E-03	-1.4E-03	-1.6E-03	-76.3E-03	-1.6E-03	-1.2E-03
6022	-	-946.0E-06	-1.2E-03	-1.3E-03	-415.8E-06	1.6E-03	1.8E-03	1.8E-03	1.7E-03	1.6E-03	1.4E-03	1.5E-03	-1.2E-03
6023	-	-347.1E-06	-509.3E-06	-848.8E-06	-1.0E-03	-922.2E-06	-971.8E-06	-1.2E-03	-1.1E-03	-1.2E-03	-1.1E-03	-990.9E-06	-1.0E-03
Average	-	-650.4E-06	-942.5E-06	-1.1E-03	-946.7E-06	-227.3E-06	-193.6E-06	-220.6E-06	-288.3E-06	-419.3E-06	-25.3E-03	-357.9E-06	-1.1E-03
Sigma	-	244.6E-06	307.4E-06	197.5E-06	410.1E-06	1.3E-03	1.4E-03	1.4E-03	1.4E-03	1.4E-03	36.1E-03	1.3E-03	85.9E-06

Parameter : Stop Threshold Voltage : VSTOP

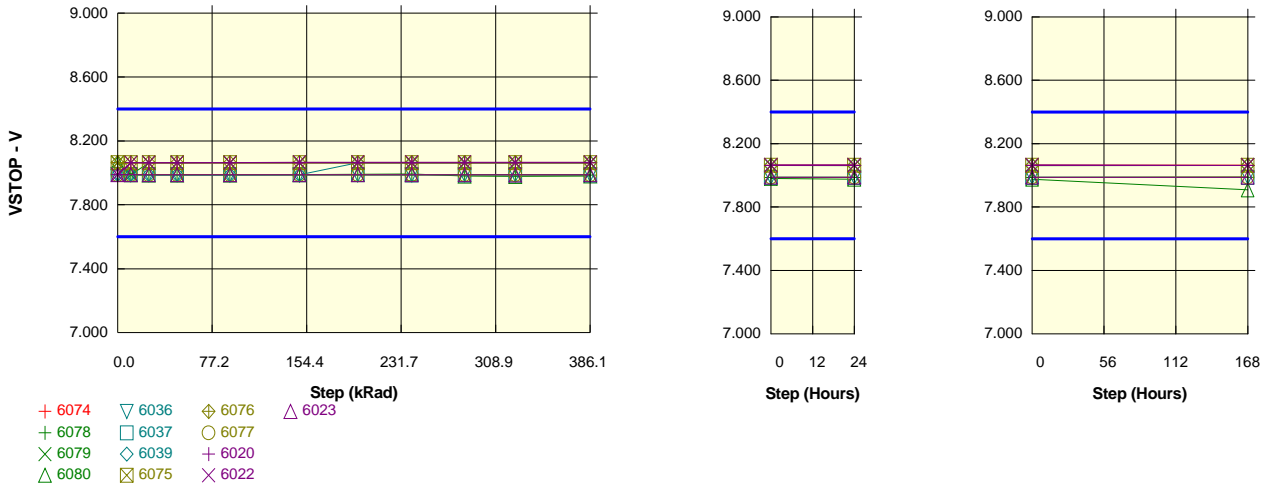
Test conditions :

Unit : V

Spec Limit Min : 7.600

Spec Limit Max : 8.400

Spec limits are represented in bold lines on the graphic.



Measurements

VSTOP	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
ON PROTON samples													
6078	7.989	7.989	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.987	7.987	7.988
6079	8.064	7.989	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.062	8.062	8.062	8.064
6080	8.064	7.989	7.988	7.988	7.988	7.990	7.991	7.993	7.980	7.979	7.981	7.976	7.908
Statistics													
Min	7.989	7.989	7.988	7.988	7.988	7.988	7.988	7.988	7.980	7.979	7.981	7.976	7.908
Max	8.064	7.989	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.062	8.062	8.062	8.064
Average	8.039	7.989	8.013	8.013	8.013	8.014	8.014	8.015	8.010	8.010	8.010	8.008	7.987
Sigma	0.036	0.000	0.035	0.036	0.035	0.035	0.035	0.034	0.037	0.038	0.037	0.038	0.063

Drift Calculation

VSTOP	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	246.0E-06	-42.0E-06	-215.5E-06	-486.9E-06	-432.5E-06	-613.7E-06	-728.6E-06	-750.1E-06	-960.4E-06	-1.0E-03	-1.3E-03	-642.3E-06
6079	-	-75.3E-03	-875.5E-06	-1.1E-03	-1.4E-03	-1.5E-03	-1.6E-03	-1.7E-03	-1.8E-03	-2.0E-03	-1.9E-03	-2.0E-03	-702.9E-06
6080	-	-75.5E-03	-76.1E-03	-76.5E-03	-75.7E-03	-74.3E-03	-73.2E-03	-70.8E-03	-83.9E-03	-85.4E-03	-83.5E-03	-88.3E-03	-155.9E-03
Average	-	-50.2E-03	-25.7E-03	-25.9E-03	-25.9E-03	-25.4E-03	-25.1E-03	-24.4E-03	-28.8E-03	-29.5E-03	-28.8E-03	-30.6E-03	-52.4E-03
Sigma	-	35.7E-03	35.6E-03	35.8E-03	35.3E-03	34.5E-03	34.0E-03	32.8E-03	39.0E-03	39.6E-03	38.6E-03	40.9E-03	73.2E-03

Measurements

VSTOP	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
ON TID samples													
6036	7.990	7.989	7.989	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.988
6037	7.990	7.989	7.989	7.989	7.989	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.988
6039	7.990	7.989	7.989	7.989	7.988	7.988	8.063	8.063	8.063	8.063	8.063	8.063	8.063
Statistics													
Min	7.990	7.989	7.989	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.988	7.988
Max	7.990	7.989	7.989	7.989	7.989	7.988	8.063	8.063	8.063	8.063	8.063	8.063	8.063
Average	7.990	7.989	7.989	7.989	7.988	7.988	8.013	8.013	8.013	8.013	8.013	8.013	8.013
Sigma	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.035	0.035	0.035	0.035	0.035	0.036

Drift Calculation

VSTOP	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-690.9E-06	-1.2E-03	-1.5E-03	-1.7E-03	-1.7E-03	-1.7E-03	-1.8E-03	-1.9E-03	-2.0E-03	-2.0E-03	-2.1E-03	-1.9E-03
6037	-	-921.2E-06	-1.2E-03	-1.4E-03	-1.5E-03	-1.6E-03	-1.8E-03	-1.9E-03	-1.9E-03	-2.1E-03	-2.1E-03	-2.1E-03	-2.1E-03
6039	-	-620.4E-06	-1.2E-03	-1.5E-03	-1.8E-03	-1.9E-03	72.7E-03	72.6E-03	72.6E-03	72.4E-03	72.5E-03	72.4E-03	73.3E-03
Average	-	-744.2E-06	-1.2E-03	-1.5E-03	-1.7E-03	-1.7E-03	23.1E-03	23.0E-03	23.0E-03	22.8E-03	22.8E-03	22.8E-03	23.1E-03
Sigma	-	128.5E-06	20.2E-06	25.9E-06	105.4E-06	107.1E-06	35.1E-03	35.1E-03	35.1E-03	35.1E-03	35.1E-03	35.1E-03	35.5E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VSTOP	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
OFF PROTON samples													
6075	8.064	8.064	8.064	8.063	8.064	8.063	8.064	8.063	8.063	8.063	8.063	8.063	8.063
6076	8.063	8.064	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.063
6077	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989
Statistics													
Min	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989	7.989
Max	8.064	8.064	8.064	8.063	8.064	8.063	8.064	8.063	8.063	8.063	8.063	8.063	8.063
Average	8.039	8.039	8.039	8.039	8.039	8.039	8.039	8.039	8.038	8.038	8.038	8.038	8.039
Sigma	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035

Drift Calculation

VSTOP	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	70.6E-06	-165.9E-06	-265.1E-06	-146.9E-06	-327.1E-06	-141.1E-06	-366.2E-06	-420.6E-06	-528.3E-06	-295.6E-06	-433.0E-06	-248.9E-06
6076	-	169.8E-06	-20.0E-06	-191.7E-06	-180.2E-06	-144.0E-06	-72.5E-06	-207.9E-06	-213.6E-06	-319.5E-06	-298.5E-06	-282.3E-06	-177.4E-06
6077	-	-63.4E-06	-255.6E-06	-207.9E-06	-323.3E-06	-496.9E-06	-360.0E-06	-489.2E-06	-531.2E-06	-648.0E-06	-663.3E-06	-613.7E-06	-287.1E-06
Average	-	59.0E-06	-147.2E-06	-221.6E-06	-216.8E-06	-322.7E-06	-191.2E-06	-354.4E-06	-388.5E-06	-498.6E-06	-419.1E-06	-443.0E-06	-237.8E-06
Sigma	-	95.5E-06	97.1E-06	31.5E-06	76.5E-06	144.1E-06	122.6E-06	115.2E-06	131.6E-06	135.8E-06	172.6E-06	135.5E-06	45.5E-06

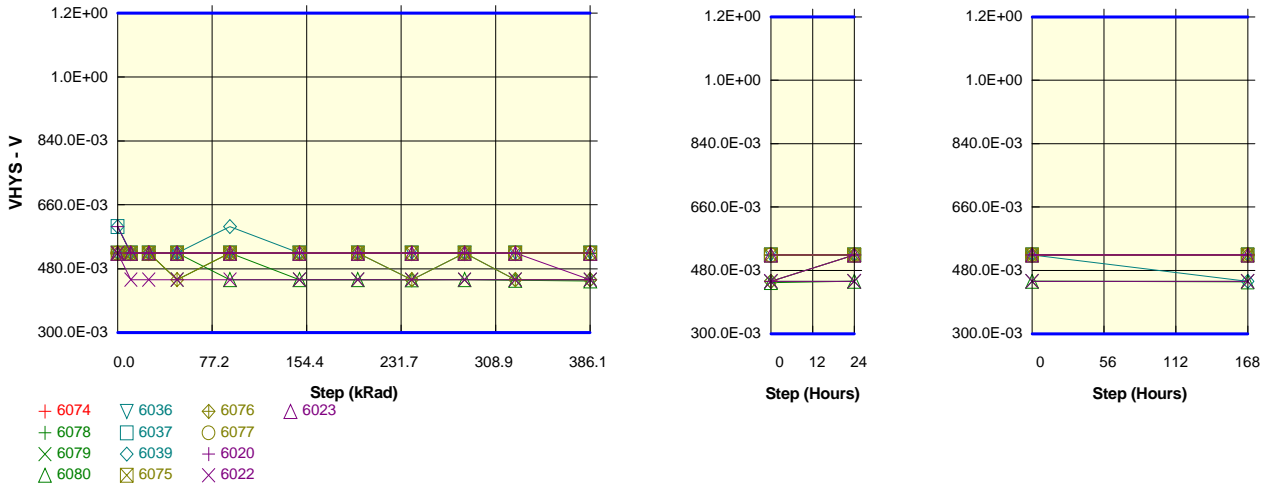
Measurements

VSTOP	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
OFF TID samples													
6020	7.990	8.064	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.063	8.063
6022	7.990	8.064	8.064	8.063	8.064	8.066	8.066	8.067	8.066	8.066	8.066	8.066	8.066
6023	7.990	7.989	7.989	7.989	7.989	7.989	7.989	7.988	7.989	7.988	7.988	7.989	7.989
Statistics													
Min	7.990	7.989	7.989	7.989	7.989	7.989	7.989	7.988	7.989	7.988	7.988	7.989	7.989
Max	7.990	8.064	8.064	8.063	8.064	8.066	8.066	8.067	8.066	8.066	8.066	8.066	8.064
Average	7.990	8.039	8.039	8.038	8.039	8.039	8.039	8.039	8.039	8.039	8.039	8.039	8.038
Sigma	0.000	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035

Drift Calculation

VSTOP	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	74.3E-03	73.7E-03	73.6E-03	73.4E-03	73.4E-03	73.4E-03	73.4E-03	73.4E-03	73.2E-03	73.3E-03	73.2E-03	73.6E-03
6022	-	73.9E-03	73.7E-03	73.6E-03	74.5E-03	76.6E-03	76.6E-03	76.7E-03	76.7E-03	76.5E-03	76.4E-03	76.4E-03	73.7E-03
6023	-	-338.1E-06	-688.1E-06	-871.7E-06	-1.1E-03	-960.8E-06	-1.0E-03	-1.1E-03	-1.1E-03	-1.3E-03	-1.1E-03	-1.0E-03	-1.0E-03
Average	-	49.3E-03	48.9E-03	48.8E-03	48.9E-03	49.7E-03	49.7E-03	49.7E-03	49.6E-03	49.5E-03	49.5E-03	49.5E-03	48.8E-03
Sigma	-	35.1E-03	35.1E-03	35.1E-03	35.4E-03	35.8E-03	35.9E-03	36.0E-03	35.9E-03	35.9E-03	35.8E-03	35.8E-03	35.2E-03

Parameter : Under Voltage Lockout Hysteresis : VHYS
 Test conditions :
 Unit : V
 Spec Limit Min : 300.0E-03
 Spec Limit Max : 1.2E+00
 Spec limits are represented in bold lines on the graphic.



Measurements

VHYS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03
ON PROTON samples													
6078	524.1E-03	524.2E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03	524.0E-03	524.0E-03	524.1E-03	523.7E-03	524.1E-03	524.2E-03
6079	524.2E-03	524.2E-03	524.2E-03	449.3E-03	524.2E-03	449.3E-03	449.1E-03	449.0E-03	448.8E-03	449.3E-03	448.8E-03	449.3E-03	449.4E-03
6080	524.1E-03	524.2E-03	523.8E-03	524.1E-03	449.3E-03	449.2E-03	449.3E-03	449.1E-03	449.6E-03	447.3E-03	445.8E-03	449.6E-03	447.5E-03
Statistics													
Min	524.1E-03	524.2E-03	523.8E-03	449.3E-03	449.3E-03	449.2E-03	449.1E-03	449.0E-03	448.8E-03	447.3E-03	445.8E-03	449.3E-03	447.5E-03
Max	524.2E-03	524.2E-03	524.2E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03	524.0E-03	524.0E-03	524.1E-03	523.7E-03	524.1E-03	524.2E-03
Average	524.1E-03	524.2E-03	524.1E-03	499.2E-03	499.2E-03	474.2E-03	474.2E-03	474.1E-03	474.1E-03	473.6E-03	472.8E-03	474.3E-03	473.7E-03
Sigma	40.4E-06	16.3E-06	174.8E-06	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.7E-03	36.0E-03	35.2E-03	35.7E-03

Drift Calculation

VHYS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	165.9E-06	67.7E-06	-9.5E-06	103.5E-06	112.1E-06	80.6E-06	-56.3E-06	-46.3E-06	45.8E-06	-352.9E-06	62.9E-06	103.5E-06
6079	-	38.6E-06	65.8E-06	-74.9E-03	34.3E-06	-74.9E-03	-75.0E-03	-75.1E-03	-75.3E-03	-74.9E-03	-75.4E-03	-74.9E-03	-74.8E-03
6080	-	58.7E-06	-318.1E-06	-29.1E-06	-74.9E-03	-75.0E-03	-74.8E-03	-75.0E-03	-74.6E-03	-76.8E-03	-78.3E-03	-74.6E-03	-76.6E-03
Average	-	87.7E-06	-61.5E-06	-25.0E-03	-24.9E-03	-49.9E-03	-49.9E-03	-50.1E-03	-50.0E-03	-50.6E-03	-51.4E-03	-49.8E-03	-50.4E-03
Sigma	-	55.9E-06	181.4E-06	35.3E-03	35.3E-03	35.4E-03	35.4E-03	35.4E-03	35.3E-03	35.8E-03	36.1E-03	35.3E-03	35.7E-03

Measurements

VHYS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03
ON TID samples													
6036	524.1E-03	524.0E-03	524.2E-03	524.1E-03	524.1E-03	524.2E-03	524.1E-03	524.1E-03	524.2E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03
6037	599.0E-03	524.2E-03	524.0E-03	524.1E-03	524.2E-03	524.1E-03	524.2E-03	524.1E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.1E-03
6039	599.0E-03	524.2E-03	524.1E-03	524.2E-03	599.1E-03	524.1E-03	524.3E-03	449.0E-03	524.3E-03	449.1E-03	448.8E-03	524.2E-03	449.3E-03
Statistics													
Min	524.1E-03	524.0E-03	524.0E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	449.0E-03	524.2E-03	449.1E-03	448.8E-03	524.2E-03	449.3E-03
Max	599.0E-03	524.2E-03	524.2E-03	524.2E-03	599.1E-03	524.2E-03	524.3E-03	524.1E-03	524.3E-03	524.2E-03	524.2E-03	524.2E-03	524.1E-03
Average	574.0E-03	524.2E-03	524.1E-03	524.1E-03	549.1E-03	524.1E-03	524.2E-03	499.1E-03	524.2E-03	499.2E-03	499.1E-03	524.2E-03	499.2E-03
Sigma	35.3E-03	87.1E-06	62.1E-06	39.9E-06	35.3E-03	64.1E-06	76.9E-06	35.4E-03	46.6E-06	35.4E-03	35.5E-03	29.4E-06	35.3E-03

Drift Calculation

VHYS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	-24.3E-06	104.9E-06	62.9E-06	69.1E-06	155.9E-06	11.9E-06	64.8E-06	95.8E-06	39.1E-06	124.0E-06	128.3E-06	62.9E-06
6037	-	-74.8E-03	-75.0E-03	-74.9E-03	-74.9E-03	-74.9E-03	-74.8E-03	-74.9E-03	-74.8E-03	-74.8E-03	-74.8E-03	-74.9E-03	-74.9E-03
6039	-	-74.8E-03	-74.9E-03	-74.8E-03	65.3E-06	-74.9E-03	-74.7E-03	-150.0E-03	-74.7E-03	-149.9E-03	-150.2E-03	-74.8E-03	-149.7E-03
Average	-	-49.9E-03	-49.9E-03	-49.9E-03	-24.9E-03	-49.9E-03	-49.8E-03	-74.9E-03	-49.8E-03	-74.9E-03	-75.0E-03	-49.8E-03	-74.8E-03
Sigma	-	35.2E-03	35.4E-03	35.3E-03	35.3E-03	35.4E-03	35.3E-03	61.3E-03	35.3E-03	61.2E-03	61.4E-03	35.3E-03	61.1E-03

Hirex Engineering	Total Dose Radiation Test Report										Ref.:	HRX/TID/1016
	IS-1825ASRH					Intersil					Issue:	02

Measurements

VHYS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03
OFF PROTON samples													
6075	524.2E-03	524.2E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03
6076	524.2E-03	524.1E-03	524.2E-03	449.3E-03	524.2E-03	524.2E-03	524.2E-03	449.3E-03	524.1E-03	449.3E-03	449.3E-03	524.2E-03	524.2E-03
6077	524.1E-03	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03
Statistics													
Min	524.1E-03	524.1E-03	524.1E-03	449.3E-03	524.1E-03	524.2E-03	524.1E-03	449.3E-03	524.1E-03	449.3E-03	449.3E-03	524.1E-03	524.1E-03
Max	524.2E-03	524.2E-03	524.2E-03	524.1E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03
Average	524.2E-03	524.2E-03	524.1E-03	499.2E-03	524.2E-03	524.2E-03	524.1E-03	499.2E-03	524.1E-03	499.2E-03	499.2E-03	524.2E-03	524.2E-03
Sigma	27.2E-06	47.6E-06	37.5E-06	35.3E-03	31.2E-06	16.4E-06	26.2E-06	35.3E-03	21.4E-06	35.3E-03	35.3E-03	26.7E-06	55.6E-06

Drift Calculation

VHYS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	-10.5E-06	-78.2E-06	-55.3E-06	24.8E-06	29.6E-06	-24.8E-06	-28.6E-06	-25.7E-06	-26.7E-06	-22.9E-06	-40.1E-06	-12.4E-06
6076	-	-79.2E-06	16.2E-06	-74.9E-03	-2.9E-06	4.8E-06	-24.8E-06	-74.9E-03	-36.2E-06	-74.9E-03	-74.9E-03	6.7E-06	21.0E-06
6077	-	81.5E-06	-15.3E-06	953.7E-09	12.4E-06	70.6E-06	-22.4E-06	-49.6E-06	-14.3E-06	-14.8E-06	-476.8E-09	-10.0E-06	-56.3E-06
Average	-	-2.7E-06	-25.7E-06	-25.0E-03	11.4E-06	35.0E-06	-24.0E-06	-25.0E-03	-25.4E-06	-25.0E-03	-25.0E-03	-14.5E-06	-15.9E-06
Sigma	-	65.8E-06	39.3E-06	35.3E-03	11.3E-06	27.1E-06	1.1E-06	35.3E-03	9.0E-06	35.3E-03	35.3E-03	19.3E-06	31.6E-06

Measurements

VHYS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03	524.1E-03
OFF TID samples													
6020	599.0E-03	524.1E-03	524.1E-03	524.2E-03	524.1E-03	524.2E-03	524.1E-03	524.2E-03	524.1E-03	524.1E-03	449.3E-03	524.2E-03	524.2E-03
6022	524.1E-03	449.2E-03	449.3E-03	449.2E-03	449.2E-03	449.1E-03	449.3E-03	449.2E-03	449.2E-03	449.2E-03	449.2E-03	449.2E-03	449.3E-03
6023	524.1E-03	524.1E-03	524.3E-03	524.1E-03	524.2E-03	524.2E-03	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03	524.1E-03
Statistics													
Min	524.1E-03	449.2E-03	449.3E-03	449.2E-03	449.2E-03	449.1E-03	449.3E-03	449.2E-03	449.2E-03	449.2E-03	449.2E-03	449.2E-03	449.3E-03
Max	599.0E-03	524.1E-03	524.3E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.2E-03	524.1E-03	524.1E-03	524.1E-03	524.2E-03	524.2E-03
Average	549.1E-03	499.1E-03	499.2E-03	499.2E-03	499.2E-03	499.2E-03	499.2E-03	499.2E-03	499.1E-03	499.2E-03	474.2E-03	499.2E-03	499.2E-03
Sigma	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.4E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03

Drift Calculation

VHYS	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-74.9E-03	-74.9E-03	-74.7E-03	-74.8E-03	-74.7E-03	-74.8E-03	-74.8E-03	-74.8E-03	-74.8E-03	-149.7E-03	-74.8E-03	-74.8E-03
6022	-	-74.9E-03	-74.9E-03	-74.9E-03	-74.9E-03	-75.0E-03	-74.8E-03	-74.9E-03	-75.0E-03	-74.9E-03	-75.0E-03	-74.9E-03	-74.9E-03
6023	-	-9.1E-06	178.8E-06	22.9E-06	44.8E-06	38.6E-06	58.7E-06	-11.4E-06	-13.4E-06	29.6E-06	26.2E-06	18.6E-06	-7.2E-06
Average	-	-49.9E-03	-49.8E-03	-49.9E-03	-49.9E-03	-49.9E-03	-49.9E-03	-49.9E-03	-49.9E-03	-49.9E-03	-74.9E-03	-49.9E-03	-49.9E-03
Sigma	-	35.3E-03	35.4E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	35.3E-03	61.1E-03	35.3E-03	35.3E-03

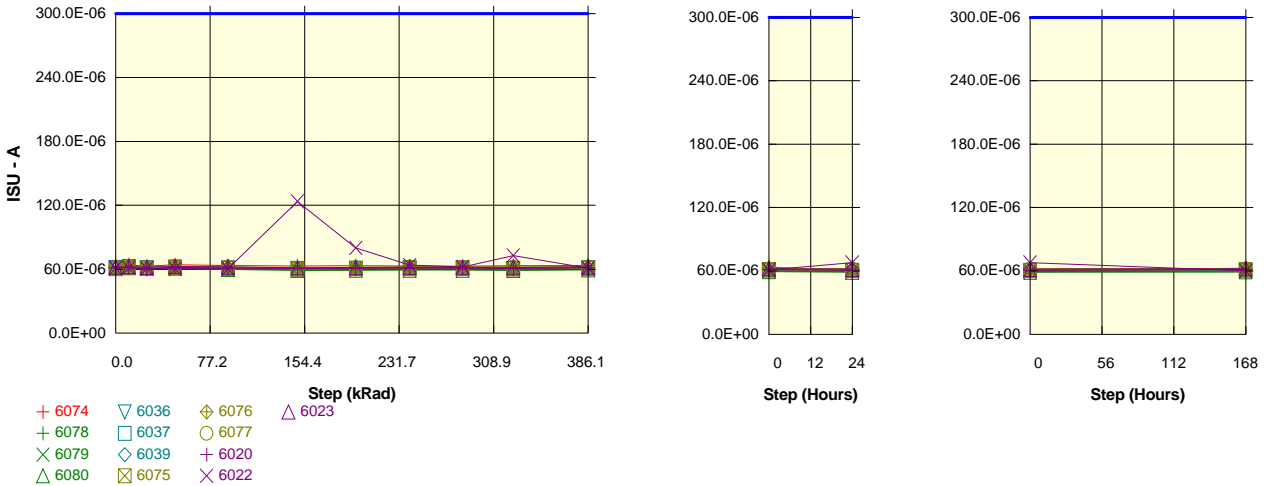
Parameter : Startup Current : ISU

Test conditions : VS=8V

Unit : A

Spec Limit Max : 300.0E-06

Spec limits are represented in bold lines on the graphic.



Measurements

ISU	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	63.0E-06	64.1E-06	62.8E-06	64.2E-06	63.5E-06	63.0E-06	63.4E-06	63.0E-06	62.8E-06	63.2E-06	63.6E-06	61.2E-06	62.7E-06
ON PROTON samples													
6078	60.8E-06	62.0E-06	61.1E-06	61.5E-06	60.7E-06	60.4E-06	60.5E-06	60.7E-06	60.7E-06	60.3E-06	60.7E-06	59.5E-06	60.5E-06
6079	60.6E-06	61.6E-06	60.8E-06	61.0E-06	60.1E-06	59.8E-06	60.0E-06	60.2E-06	60.3E-06	59.6E-06	60.4E-06	59.5E-06	60.2E-06
6080	62.2E-06	62.6E-06	61.5E-06	61.1E-06	59.9E-06	58.8E-06	59.1E-06	59.2E-06	59.1E-06	58.8E-06	59.5E-06	58.7E-06	59.1E-06
Statistics													
Min	60.6E-06	61.6E-06	60.8E-06	61.0E-06	59.9E-06	58.8E-06	59.1E-06	59.2E-06	59.1E-06	58.8E-06	59.5E-06	58.7E-06	59.1E-06
Max	62.2E-06	62.6E-06	61.5E-06	61.5E-06	60.7E-06	60.4E-06	60.5E-06	60.7E-06	60.7E-06	60.3E-06	60.7E-06	59.5E-06	60.5E-06
Average	61.2E-06	62.1E-06	61.1E-06	61.2E-06	60.2E-06	59.7E-06	59.9E-06	60.0E-06	60.0E-06	59.6E-06	60.2E-06	59.2E-06	59.9E-06
Sigma	675.3E-09	390.1E-09	274.4E-09	230.9E-09	359.0E-09	662.0E-09	590.2E-09	634.4E-09	661.5E-09	605.7E-09	528.8E-09	401.7E-09	588.7E-09

Drift Calculation

ISU	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON PROTON samples													
6078	-	1.2E-06	280.0E-09	706.0E-09	-118.0E-09	-406.0E-09	-346.0E-09	-150.0E-09	-110.0E-09	-572.0E-09	-98.0E-09	-1.3E-06	-362.0E-09
6079	-	980.0E-09	150.0E-09	400.0E-09	-492.0E-09	-844.0E-09	-602.0E-09	-404.0E-09	-380.0E-09	-1.0E-06	-252.0E-09	-1.1E-06	-398.0E-09
6080	-	412.0E-09	-700.0E-09	-1.1E-06	-2.3E-06	-3.3E-06	-3.1E-06	-3.0E-06	-3.0E-06	-3.4E-06	-2.7E-06	-3.5E-06	-3.0E-06
Average	-	867.3E-09	-90.0E-09	6.0E-09	-971.3E-09	-1.5E-06	-1.3E-06	-1.2E-06	-1.2E-06	-1.6E-06	-1.0E-06	-2.0E-06	-1.3E-06
Sigma	-	335.4E-09	434.6E-09	783.6E-09	954.6E-09	1.3E-06	1.2E-06	1.3E-06	1.3E-06	1.2E-06	1.2E-06	1.1E-06	1.3E-06

Measurements

ISU	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	63.0E-06	64.1E-06	62.8E-06	64.2E-06	63.5E-06	63.0E-06	63.4E-06	63.0E-06	62.8E-06	63.2E-06	63.6E-06	61.2E-06	62.7E-06
ON TID samples													
6036	61.8E-06	62.4E-06	61.6E-06	62.1E-06	61.1E-06	60.8E-06	61.1E-06	61.2E-06	61.4E-06	60.8E-06	61.5E-06	60.7E-06	61.2E-06
6037	61.2E-06	62.0E-06	61.2E-06	61.7E-06	61.2E-06	60.4E-06	60.7E-06	60.9E-06	61.0E-06	60.5E-06	61.1E-06	60.5E-06	60.7E-06
6039	62.2E-06	62.8E-06	62.0E-06	62.6E-06	61.8E-06	61.1E-06	61.1E-06	61.7E-06	61.8E-06	61.3E-06	61.9E-06	61.4E-06	61.8E-06
Statistics													
Min	61.2E-06	62.0E-06	61.2E-06	61.7E-06	61.1E-06	60.4E-06	60.7E-06	60.9E-06	61.0E-06	60.5E-06	61.1E-06	60.5E-06	60.7E-06
Max	62.2E-06	62.8E-06	62.0E-06	62.6E-06	61.8E-06	61.1E-06	61.1E-06	61.7E-06	61.8E-06	61.3E-06	61.9E-06	61.4E-06	61.8E-06
Average	61.7E-06	62.4E-06	61.6E-06	62.1E-06	61.4E-06	60.8E-06	61.0E-06	61.3E-06	61.4E-06	60.9E-06	61.5E-06	60.8E-06	61.3E-06
Sigma	404.3E-09	351.3E-09	344.1E-09	350.5E-09	324.6E-09	289.5E-09	189.4E-09	312.0E-09	343.8E-09	320.4E-09	302.2E-09	384.3E-09	453.4E-09

Drift Calculation

ISU	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON TID samples													
6036	-	638.0E-09	-144.0E-09	366.0E-09	-654.0E-09	-932.0E-09	-664.0E-09	-512.0E-09	-364.0E-09	-946.0E-09	-298.0E-09	-1.0E-06	-574.0E-09
6037	-	808.0E-09	-28.0E-09	538.0E-09	-14.0E-09	-748.0E-09	-470.0E-09	-250.0E-09	-198.0E-09	-674.0E-09	-44.0E-09	-720.0E-09	-434.0E-09
6039	-	682.0E-09	-172.0E-09	410.0E-09	-348.0E-09	-1.0E-06	-1.0E-06	-476.0E-09	-342.0E-09	-882.0E-09	-292.0E-09	-794.0E-09	-318.0E-09
Average	-	709.3E-09	-114.7E-09	438.0E-09	-338.7E-09	-902.0E-09	-722.7E-09	-412.7E-09	-301.3E-09	-834.0E-09	-211.3E-09	-850.7E-09	-442.0E-09
Sigma	-	72.0E-09	62.3E-09	73.0E-09	261.4E-09	115.5E-09	234.0E-09	116.0E-09	73.6E-09	116.1E-09	118.3E-09	135.9E-09	104.7E-09

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016	
	IS-1825ASRH					Intersil				Issue:	02	

Measurements

ISU	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	63.0E-06	64.1E-06	62.8E-06	64.2E-06	63.5E-06	63.0E-06	63.4E-06	63.0E-06	62.8E-06	63.2E-06	63.6E-06	61.2E-06	62.7E-06
OFF PROTON samples													
6075	60.6E-06	61.4E-06	60.8E-06	61.4E-06	60.9E-06	60.2E-06	60.6E-06	60.9E-06	60.8E-06	60.4E-06	61.0E-06	60.4E-06	61.1E-06
6076	61.8E-06	62.7E-06	62.0E-06	62.7E-06	62.2E-06	61.4E-06	61.9E-06	62.2E-06	62.2E-06	61.7E-06	62.2E-06	61.9E-06	62.4E-06
6077	61.7E-06	62.4E-06	61.6E-06	62.5E-06	61.9E-06	61.1E-06	61.6E-06	61.9E-06	61.9E-06	62.1E-06	62.1E-06	62.0E-06	62.0E-06
Statistics													
Min	60.6E-06	61.4E-06	60.8E-06	61.4E-06	60.9E-06	60.2E-06	60.6E-06	60.9E-06	60.8E-06	60.4E-06	61.0E-06	60.4E-06	61.1E-06
Max	61.8E-06	62.7E-06	62.0E-06	62.7E-06	62.2E-06	61.4E-06	61.9E-06	62.2E-06	62.2E-06	62.1E-06	62.2E-06	62.0E-06	62.4E-06
Average	61.4E-06	62.2E-06	61.5E-06	62.2E-06	61.7E-06	60.9E-06	61.3E-06	61.7E-06	61.6E-06	61.4E-06	61.8E-06	61.4E-06	61.8E-06
Sigma	553.9E-09	573.8E-09	484.9E-09	560.9E-09	560.9E-09	529.5E-09	548.7E-09	537.8E-09	576.9E-09	723.1E-09	534.2E-09	701.4E-09	553.3E-09

Drift Calculation

ISU	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	786.0E-09	248.0E-09	836.0E-09	318.0E-09	-388.0E-09	16.0E-09	368.0E-09	262.0E-09	-178.0E-09	440.0E-09	-148.0E-09	488.0E-09
6076	-	880.0E-09	154.0E-09	874.0E-09	378.0E-09	-400.0E-09	56.0E-09	380.0E-09	364.0E-09	-102.0E-09	390.0E-09	44.0E-09	538.0E-09
6077	-	732.0E-09	-20.0E-09	812.0E-09	250.0E-09	-516.0E-09	-94.0E-09	244.0E-09	212.0E-09	420.0E-09	410.0E-09	300.0E-09	388.0E-09
Average	-	799.3E-09	127.3E-09	840.7E-09	315.3E-09	-434.7E-09	-7.3E-09	330.7E-09	279.3E-09	46.7E-09	413.3E-09	65.3E-09	471.3E-09
Sigma	-	61.2E-09	111.0E-09	25.5E-09	52.3E-09	57.7E-09	63.4E-09	61.5E-09	63.3E-09	265.8E-09	20.5E-09	183.5E-09	62.4E-09

Measurements

ISU	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	63.0E-06	64.1E-06	62.8E-06	64.2E-06	63.5E-06	63.0E-06	63.4E-06	63.0E-06	62.8E-06	63.2E-06	63.6E-06	61.2E-06	62.7E-06
OFF TID samples													
6020	61.3E-06	61.7E-06	59.9E-06	61.9E-06	61.1E-06	60.6E-06	60.8E-06	61.3E-06	61.2E-06	60.7E-06	61.4E-06	60.8E-06	61.4E-06
6022	61.3E-06	61.6E-06	60.7E-06	60.4E-06	60.5E-06	123.8E-06	80.0E-06	63.9E-06	62.2E-06	72.9E-06	61.2E-06	67.9E-06	60.2E-06
6023	61.9E-06	62.5E-06	61.8E-06	62.6E-06	62.1E-06	61.3E-06	61.5E-06	61.8E-06	61.8E-06	61.7E-06	62.1E-06	61.6E-06	62.1E-06
Statistics													
Min	61.3E-06	61.6E-06	59.9E-06	60.4E-06	60.5E-06	60.6E-06	60.8E-06	61.3E-06	61.2E-06	60.7E-06	61.2E-06	60.8E-06	60.2E-06
Max	61.9E-06	62.5E-06	61.8E-06	62.6E-06	62.1E-06	123.8E-06	80.0E-06	63.9E-06	62.2E-06	72.9E-06	62.1E-06	67.9E-06	62.1E-06
Average	61.5E-06	61.9E-06	60.8E-06	61.6E-06	61.2E-06	81.9E-06	67.5E-06	62.3E-06	61.8E-06	65.1E-06	61.5E-06	63.4E-06	61.2E-06
Sigma	302.9E-09	363.8E-09	783.8E-09	919.2E-09	645.9E-09	29.6E-06	8.9E-06	1.2E-06	396.4E-09	5.5E-06	403.0E-09	3.2E-06	786.9E-09

Drift Calculation

ISU	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	450.0E-09	-1.4E-06	630.0E-09	-172.0E-09	-700.0E-09	-464.0E-09	-50.0E-09	-74.0E-09	-646.0E-09	90.0E-09	-534.0E-09	136.0E-09
6022	-	360.0E-09	-576.0E-09	-864.0E-09	-792.0E-09	62.5E-06	18.7E-06	2.7E-06	912.0E-09	11.6E-06	-118.0E-09	6.7E-06	-1.1E-06
6023	-	528.0E-09	-126.0E-09	678.0E-09	126.0E-09	-646.0E-09	-402.0E-09	-112.0E-09	-86.0E-09	-248.0E-09	174.0E-09	-330.0E-09	166.0E-09
Average	-	446.0E-09	-704.0E-09	148.0E-09	-279.3E-09	20.4E-06	6.0E-06	831.3E-09	250.7E-09	3.6E-06	48.7E-09	1.9E-06	-258.0E-09
Sigma	-	68.6E-09	531.9E-09	715.9E-09	382.4E-09	29.8E-06	9.0E-06	1.3E-06	467.7E-09	5.7E-06	122.7E-09	3.3E-06	578.5E-09

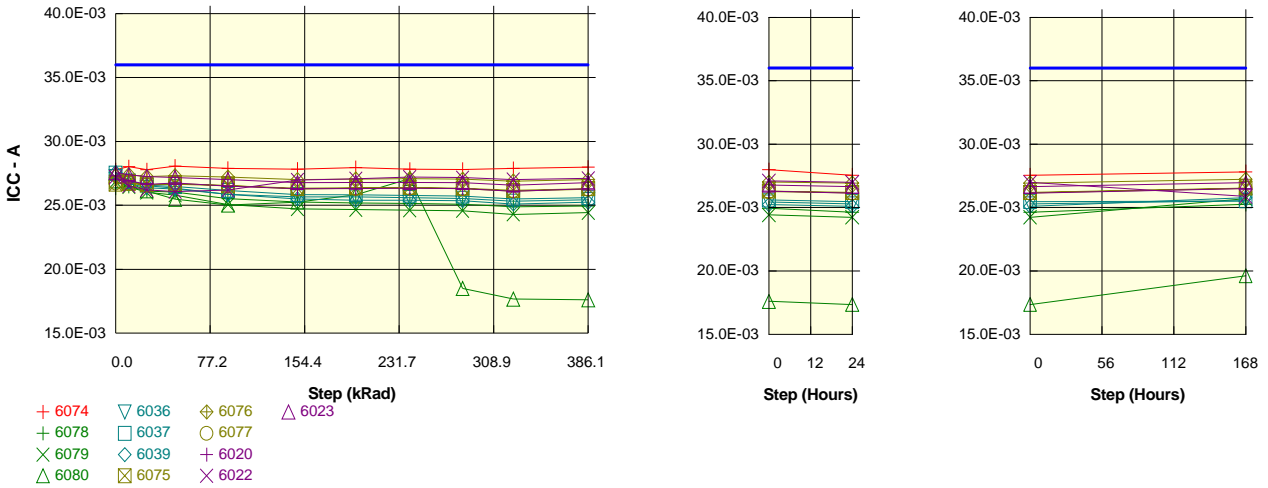
Parameter : Operating Supply Current : ICC

Test conditions : Inverting Input. Ramp and Current Lim/SD Voltage = 0V and Non-Inverting Input Voltage = 1V

Unit : A

Spec Limit Max : 36.0E-03

Spec limits are represented in bold lines on the graphic.



Measurements

ICC	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	27.8E-03	28.0E-03	27.8E-03	28.1E-03	27.9E-03	27.8E-03	28.0E-03	27.8E-03	27.8E-03	27.9E-03	28.0E-03	27.6E-03	27.8E-03
ON_PROTON samples													
6078	26.4E-03	26.5E-03	26.1E-03	26.0E-03	25.5E-03	25.3E-03	25.2E-03	25.2E-03	25.1E-03	24.9E-03	24.9E-03	24.6E-03	25.3E-03
6079	26.9E-03	26.4E-03	26.0E-03	25.8E-03	25.1E-03	24.7E-03	24.7E-03	24.6E-03	24.6E-03	24.3E-03	24.4E-03	24.2E-03	25.7E-03
6080	27.5E-03	26.8E-03	26.1E-03	25.5E-03	25.0E-03	25.3E-03	25.8E-03	27.1E-03	18.5E-03	17.7E-03	17.6E-03	17.4E-03	19.6E-03
Statistics													
Min	26.4E-03	26.4E-03	26.0E-03	25.5E-03	25.0E-03	24.7E-03	24.7E-03	24.6E-03	18.5E-03	17.7E-03	17.6E-03	17.4E-03	19.6E-03
Max	27.5E-03	26.8E-03	26.1E-03	26.0E-03	25.5E-03	25.3E-03	25.8E-03	27.1E-03	25.1E-03	24.9E-03	24.9E-03	24.6E-03	25.7E-03
Average	26.9E-03	26.6E-03	26.1E-03	25.8E-03	25.2E-03	25.1E-03	25.2E-03	25.6E-03	22.7E-03	22.3E-03	22.3E-03	22.1E-03	23.5E-03
Sigma	467.8E-06	161.5E-06	52.8E-06	231.7E-06	224.8E-06	252.8E-06	476.8E-06	1.1E-03	3.0E-03	3.3E-03	3.3E-03	3.3E-03	2.8E-03

Drift Calculation

ICC	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_PROTON samples													
6078	-	128.0E-06	-230.0E-06	-314.0E-06	-836.0E-06	-1.1E-03	-1.2E-03	-1.2E-03	-1.3E-03	-1.5E-03	-1.4E-03	-1.7E-03	-1.1E-03
6079	-	-424.0E-06	-856.0E-06	-1.1E-03	-1.8E-03	-2.1E-03	-2.2E-03	-2.2E-03	-2.3E-03	-2.6E-03	-2.4E-03	-2.6E-03	-1.2E-03
6080	-	-694.0E-06	-1.4E-03	-2.0E-03	-2.5E-03	-2.2E-03	-1.7E-03	-402.0E-06	-9.0E-03	-9.8E-03	-9.9E-03	-10.1E-03	-7.9E-03
Average	-	-330.0E-06	-820.0E-06	-1.1E-03	-1.7E-03	-1.8E-03	-1.7E-03	-1.3E-03	-4.2E-03	-4.6E-03	-4.6E-03	-4.8E-03	-3.4E-03
Sigma	-	342.1E-06	467.7E-06	699.5E-06	674.5E-06	525.9E-06	423.8E-06	754.9E-06	3.4E-03	3.7E-03	3.8E-03	3.8E-03	3.2E-03

Measurements

ICC	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	27.8E-03	28.0E-03	27.8E-03	28.1E-03	27.9E-03	27.8E-03	28.0E-03	27.8E-03	27.8E-03	27.9E-03	28.0E-03	27.6E-03	27.8E-03
ON_TID samples													
6036	27.3E-03	26.7E-03	26.4E-03	26.3E-03	25.9E-03	25.7E-03	25.7E-03	25.6E-03	25.6E-03	25.3E-03	25.5E-03	25.3E-03	25.6E-03
6037	27.5E-03	26.9E-03	26.6E-03	26.5E-03	26.2E-03	25.9E-03	25.8E-03	25.8E-03	25.7E-03	25.5E-03	25.6E-03	25.5E-03	25.5E-03
6039	27.6E-03	27.0E-03	26.5E-03	26.3E-03	25.9E-03	25.5E-03	25.4E-03	25.4E-03	25.4E-03	25.1E-03	25.2E-03	25.1E-03	25.8E-03
Statistics													
Min	27.3E-03	26.7E-03	26.4E-03	26.3E-03	25.9E-03	25.5E-03	25.4E-03	25.4E-03	25.4E-03	25.1E-03	25.2E-03	25.1E-03	25.5E-03
Max	27.6E-03	27.0E-03	26.6E-03	26.5E-03	26.2E-03	25.9E-03	25.8E-03	25.8E-03	25.7E-03	25.5E-03	25.6E-03	25.5E-03	25.8E-03
Average	27.5E-03	26.9E-03	26.5E-03	26.4E-03	26.0E-03	25.7E-03	25.6E-03	25.6E-03	25.5E-03	25.3E-03	25.4E-03	25.3E-03	25.6E-03
Sigma	143.0E-06	109.9E-06	87.3E-06	83.8E-06	141.9E-06	138.9E-06	176.2E-06	153.6E-06	144.6E-06	165.4E-06	146.8E-06	147.0E-06	114.0E-06

Drift Calculation

ICC	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
ON_TID samples													
6036	-	-546.0E-06	-870.0E-06	-980.0E-06	-1.4E-03	-1.6E-03	-1.6E-03	-1.6E-03	-1.7E-03	-1.9E-03	-1.8E-03	-2.0E-03	-1.7E-03
6037	-	-616.0E-06	-942.0E-06	-1.1E-03	-1.4E-03	-1.7E-03	-1.7E-03	-1.7E-03	-1.8E-03	-2.0E-03	-1.9E-03	-2.1E-03	-2.0E-03
6039	-	-618.0E-06	-1.0E-03	-1.2E-03	-1.7E-03	-2.1E-03	-2.2E-03	-2.2E-03	-2.2E-03	-2.5E-03	-2.3E-03	-2.5E-03	-1.8E-03
Average	-	-593.3E-06	-948.7E-06	-1.1E-03	-1.5E-03	-1.8E-03	-1.8E-03	-1.9E-03	-1.9E-03	-2.1E-03	-2.0E-03	-2.2E-03	-1.8E-03
Sigma	-	33.5E-06	67.1E-06	107.8E-06	158.4E-06	210.5E-06	255.6E-06	229.0E-06	220.0E-06	241.4E-06	228.2E-06	219.8E-06	123.3E-06

Hirex Engineering	Total Dose Radiation Test Report									Ref.:	HRX/TID/1016
	IS-1825ASRH				Intersil					Issue:	02

Measurements

ICC	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	27.8E-03	28.0E-03	27.8E-03	28.1E-03	27.9E-03	27.8E-03	28.0E-03	27.8E-03	27.8E-03	27.9E-03	28.0E-03	27.6E-03	27.8E-03
OFF PROTON samples													
6075	26.7E-03	26.7E-03	26.6E-03	26.7E-03	26.5E-03	26.3E-03	26.4E-03	26.4E-03	26.3E-03	26.2E-03	26.3E-03	26.2E-03	26.5E-03
6076	27.3E-03	27.4E-03	27.3E-03	27.3E-03	27.2E-03	27.0E-03	27.1E-03	27.1E-03	27.0E-03	26.9E-03	27.0E-03	26.9E-03	27.2E-03
6077	26.7E-03	26.8E-03	26.6E-03	26.7E-03	26.6E-03	26.3E-03	26.3E-03	26.4E-03	26.3E-03	26.1E-03	26.3E-03	26.2E-03	26.5E-03
Statistics													
Min	26.7E-03	26.7E-03	26.6E-03	26.7E-03	26.5E-03	26.3E-03	26.3E-03	26.4E-03	26.3E-03	26.1E-03	26.3E-03	26.2E-03	26.5E-03
Max	27.3E-03	27.4E-03	27.3E-03	27.3E-03	27.2E-03	27.0E-03	27.1E-03	27.1E-03	27.0E-03	26.9E-03	27.0E-03	26.9E-03	27.2E-03
Average	26.9E-03	27.0E-03	26.8E-03	26.9E-03	26.8E-03	26.5E-03	26.6E-03	26.6E-03	26.6E-03	26.4E-03	26.5E-03	26.4E-03	26.8E-03
Sigma	283.8E-06	308.4E-06	310.7E-06	304.2E-06	314.7E-06	340.8E-06	333.6E-06	337.6E-06	343.2E-06	354.6E-06	342.7E-06	363.8E-06	331.0E-06

Drift Calculation

ICC	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF PROTON samples													
6075	-	58.0E-06	-66.0E-06	-8.0E-06	-142.0E-06	-338.0E-06	-298.0E-06	-272.0E-06	-328.0E-06	-500.0E-06	-368.0E-06	-482.0E-06	-126.0E-06
6076	-	88.0E-06	-50.0E-06	16.0E-06	-94.0E-06	-282.0E-06	-244.0E-06	-214.0E-06	-258.0E-06	-408.0E-06	-298.0E-06	-364.0E-06	-68.0E-06
6077	-	8.0E-06	-154.0E-06	-52.0E-06	-182.0E-06	-470.0E-06	-406.0E-06	-388.0E-06	-444.0E-06	-620.0E-06	-482.0E-06	-590.0E-06	-216.0E-06
Average	-	51.3E-06	-90.0E-06	-14.7E-06	-139.3E-06	-363.3E-06	-316.0E-06	-291.3E-06	-343.3E-06	-509.3E-06	-382.7E-06	-478.7E-06	-136.7E-06
Sigma	-	33.0E-06	45.7E-06	28.2E-06	36.0E-06	78.8E-06	67.3E-06	72.3E-06	76.7E-06	86.8E-06	75.8E-06	92.3E-06	60.9E-06

Measurements

ICC	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
6074_REF	27.8E-03	28.0E-03	27.8E-03	28.1E-03	27.9E-03	27.8E-03	28.0E-03	27.8E-03	27.8E-03	27.9E-03	28.0E-03	27.6E-03	27.8E-03
OFF TID samples													
6020	27.3E-03	26.9E-03	26.6E-03	26.8E-03	26.5E-03	26.3E-03	26.3E-03	26.3E-03	26.3E-03	26.1E-03	26.3E-03	26.1E-03	26.5E-03
6022	27.2E-03	26.5E-03	26.2E-03	26.1E-03	26.2E-03	27.0E-03	27.1E-03	27.2E-03	27.2E-03	27.0E-03	27.1E-03	27.0E-03	25.9E-03
6023	27.6E-03	27.4E-03	27.3E-03	27.2E-03	27.0E-03	26.8E-03	26.8E-03	26.8E-03	26.8E-03	26.6E-03	26.8E-03	26.7E-03	27.0E-03
Statistics													
Min	27.2E-03	26.5E-03	26.2E-03	26.1E-03	26.2E-03	26.3E-03	26.3E-03	26.3E-03	26.3E-03	26.1E-03	26.3E-03	26.1E-03	25.9E-03
Max	27.6E-03	27.4E-03	27.3E-03	27.2E-03	27.0E-03	27.0E-03	27.1E-03	27.2E-03	27.2E-03	27.0E-03	27.1E-03	27.0E-03	27.0E-03
Average	27.4E-03	26.9E-03	26.7E-03	26.7E-03	26.6E-03	26.7E-03	26.7E-03	26.8E-03	26.8E-03	26.6E-03	26.7E-03	26.6E-03	26.4E-03
Sigma	151.3E-06	355.3E-06	427.0E-06	453.9E-06	340.8E-06	283.5E-06	313.7E-06	355.3E-06	348.2E-06	375.8E-06	329.6E-06	347.6E-06	447.7E-06

Drift Calculation

ICC	0 kRad	10.8 kRad	25.5 kRad	48.6 kRad	91.8 kRad	148.5 kRad	196.2 kRad	240.3 kRad	283.5 kRad	324.9 kRad	386.1 kRad	24 Hours	168 Hours
OFF TID samples													
6020	-	-378.0E-06	-670.0E-06	-556.0E-06	-810.0E-06	-1.0E-03	-994.0E-06	-974.0E-06	-992.0E-06	-1.2E-03	-1.0E-03	-1.2E-03	-820.0E-06
6022	-	-688.0E-06	-990.0E-06	-1.1E-03	-1.0E-03	-232.0E-06	-130.0E-06	0.0E+00	-36.0E-06	-192.0E-06	-98.0E-06	-222.0E-06	-1.3E-03
6023	-	-178.0E-06	-310.0E-06	-388.0E-06	-548.0E-06	-792.0E-06	-772.0E-06	-774.0E-06	-788.0E-06	-988.0E-06	-796.0E-06	-906.0E-06	-596.0E-06
Average	-	-414.7E-06	-656.7E-06	-691.3E-06	-790.7E-06	-678.7E-06	-632.0E-06	-582.7E-06	-605.3E-06	-798.7E-06	-633.3E-06	-766.0E-06	-915.3E-06
Sigma	-	209.8E-06	277.8E-06	317.7E-06	190.7E-06	328.4E-06	366.4E-06	420.0E-06	411.1E-06	439.0E-06	388.1E-06	399.5E-06	307.1E-06