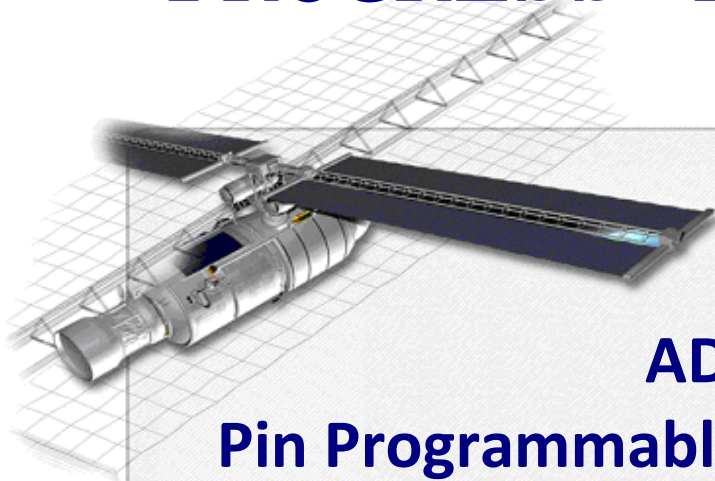
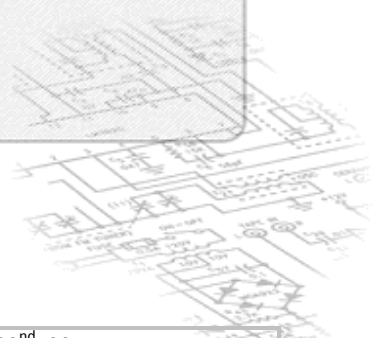




# TOTAL IONIZING DOSE PROGRESS TEST REPORT



## AD584 Pin Programmable Precision Voltage Reference DC1052A From Analog Devices



|   |                                      |   |
|---|--------------------------------------|---|
| TRAD/TE/AD584SH/1052A/ESA/MV/1410   |                                      | Labège, May 22 <sup>nd</sup> , 2015   |
|   |                                      | TRAD, Bât Gallium<br>907, Voie l'Occitane - 31670 LABEGE France<br>☎: 05 61 00 95 60 Fax: 05 61 00 95 61<br>Email: <a href="mailto:trad@trad.fr">trad@trad.fr</a> Web Site: <a href="http://www.trad.fr">www.trad.fr</a><br><br>SIRET 397 862 038 00056 - TVA FR59397862038 |
| Written by  | Verified by / Quality control        | Approved by   |
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| Revision: 0   | Creation of the document             |   |
| Revision: 1   | Addition of table of test parameters |   |
| To: <b>ESA</b><br><b>Mr Christian POIVEY</b>  | Project/Program:<br>Ref:             |   |

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## 1. INTRODUCTION

This progress report describes the testing and characterization of the **AD584SH** manufactured by **Analog Devices**. Testing began on January 05<sup>th</sup>, 2015 and ended on February 24<sup>th</sup>, 2015.

## 2. PART INFORMATION

### 2.1. Identification

|                         |  |
|-------------------------|--|
| <b>Part designation</b> | AD584SH                                      |
| <b>Manufacturer</b>     | Analog Devices                               |
| <b>Part function</b>    | Pin Programmable Precision Voltage Reference |

### 2.2. Procurement information

|                               |   |
|-------------------------------|---|
| <b>Package</b>                | TO-99   |
| <b>Date Code</b>              | 1052A   |
| <b>Charge No</b>              | 94578   |
| <b>Number of tested parts</b> | 30 irradiated samples (Biased OFF) + 1 reference sample |

## 3. COMMENTS

The irradiation test on **30 AD584SH**, a **Pin Programmable Precision Voltage Reference** from **Analog Devices** is using gamma rays from Cobalt 60 source, at low dose rate (210 rad(Si)/h).

For an easier result visualisation, measurements and graphs have been separated per lot.

The black curve with no drift is the DUT reference (not irradiated).

After the 168h/100°C annealing step, a drift appears on most of measurements and some of those parameters become out of specification.

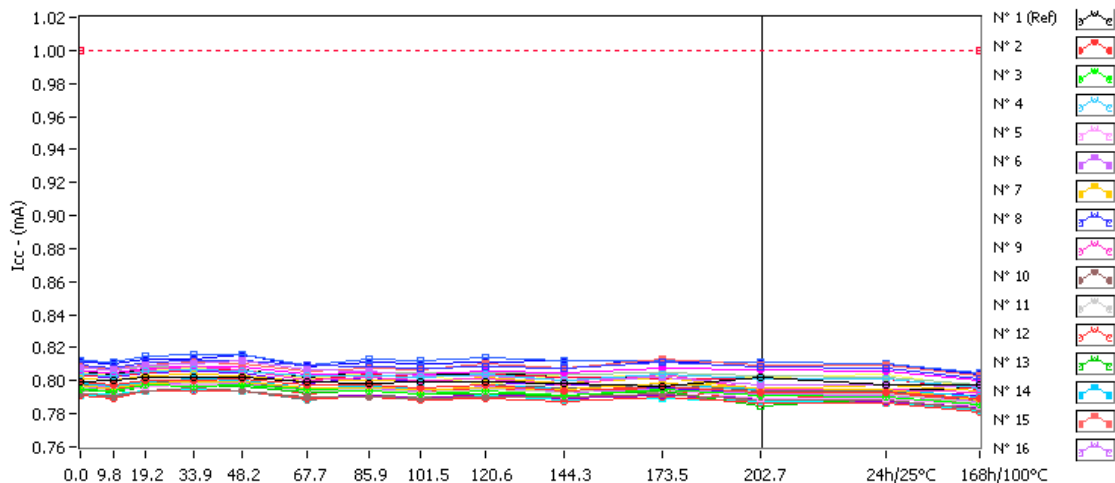
#### 4. TEST PARAMETERS

| Parameters  | Symbols        | Test conditions       |
|---|----------------|-----------------------|
| <b>Ta=25°C, Vin=15V, IL=0, unless otherwise specified</b> |                |                       |
| Quiescent Current   | <b>ICC</b>     | Vin=38V; VO=10V       |
| Output VOltage  | <b>VOUT1</b>   | VO=10V                |
|   | <b>VOUT2</b>   | VO=7.5V               |
|   | <b>VOUT3</b>   | VO=5.0V               |
|   | <b>VOUT4</b>   | VO=2.5V               |
| Line Regulation   | <b>VRLINE1</b> | 12.5V<Vin<15V; VO=10V |
|   | <b>VRLINE2</b> | 15V<Vin<30V; VO=10V   |
| Load Regulation   | <b>VRLOAD1</b> | 0mA<IL<5mA; VO=10V    |
|   | <b>VRLOAD2</b> | 0mA<IL<5mA; VO=7.5V   |
|   | <b>VRLOAD3</b> | 0mA<IL<5mA; VO=5.0V   |
|   | <b>VRLOAD4</b> | 0mA<IL<5mA; VO=2.5V   |
| Output Short Circuit Current                              | <b>IOS</b>     | VO=10V                |

#### 5. APPENDIX 1 MEASURED PARAMETERS

# 1. Icc

Ta=25°C; Vin=38V; IL=0mA; VO=10V



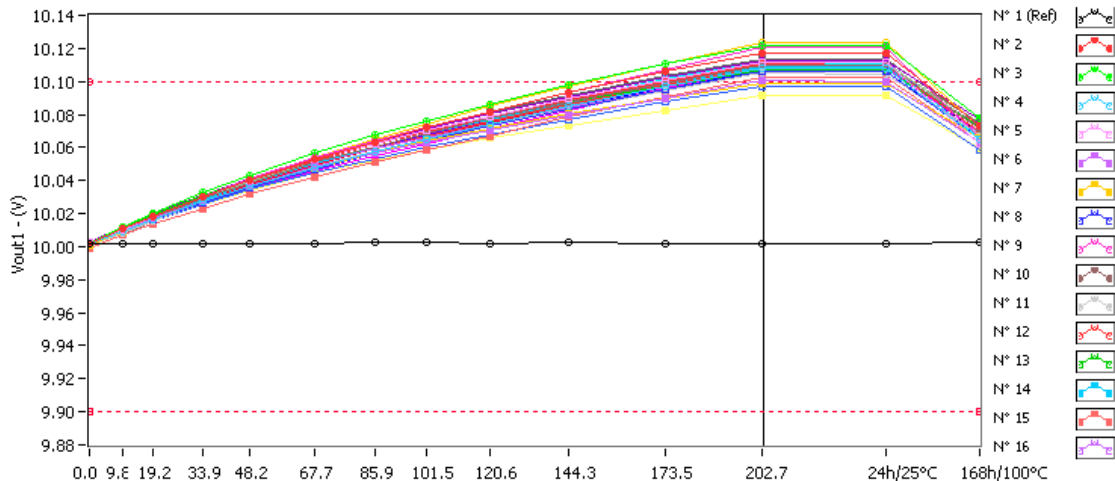
Icc . (mA)

Max = 1.0

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 0.7994          | 0.8000          | 0.8022           | 0.8024           | 0.8025           | 0.7991           | 0.7980           | 0.7995            | 0.7990            | 0.7981            | 0.7966            | 0.8019            | 0.7976   | 0.7974     |
| N° 2       | 0.7992          | 0.7977          | 0.8005           | 0.8006           | 0.8008           | 0.7976           | 0.7974           | 0.7953            | 0.7971            | 0.7939            | 0.7966            | 0.7933            | 0.7932   | 0.7893     |
| N° 3       | 0.7948          | 0.7938          | 0.7972           | 0.7969           | 0.7975           | 0.7949           | 0.7943           | 0.7921            | 0.7938            | 0.7910            | 0.7944            | 0.7908            | 0.7905   | 0.7858     |
| N° 4       | 0.8043          | 0.8032          | 0.8059           | 0.8063           | 0.8061           | 0.8033           | 0.8029           | 0.8021            | 0.8037            | 0.8006            | 0.8041            | 0.8011            | 0.8009   | 0.7956     |
| N° 5       | 0.7946          | 0.7937          | 0.7965           | 0.7977           | 0.7972           | 0.7944           | 0.7939           | 0.7921            | 0.7938            | 0.7907            | 0.7948            | 0.7894            | 0.7896   | 0.7846     |
| N° 6       | 0.8080          | 0.8063          | 0.8095           | 0.8101           | 0.8125           | 0.8071           | 0.8054           | 0.8033            | 0.8034            | 0.8000            | 0.8019            | 0.7978            | 0.7979   | 0.7965     |
| N° 7       | 0.7966          | 0.7954          | 0.7988           | 0.7993           | 0.7994           | 0.7959           | 0.7955           | 0.7944            | 0.7960            | 0.7946            | 0.7989            | 0.7954            | 0.7947   | 0.7886     |
| N° 8       | 0.8094          | 0.8078          | 0.8110           | 0.8124           | 0.8120           | 0.8095           | 0.8082           | 0.8075            | 0.8088            | 0.8076            | 0.8109            | 0.8084            | 0.8075   | 0.8014     |
| N° 9       | 0.8040          | 0.8029          | 0.8063           | 0.8084           | 0.8063           | 0.8002           | 0.8019           | 0.8001            | 0.8010            | 0.7973            | 0.8035            | 0.7950            | 0.7950   | 0.7933     |
| N° 10      | 0.7922          | 0.7909          | 0.7935           | 0.7958           | 0.7938           | 0.7903           | 0.7903           | 0.7896            | 0.7904            | 0.7900            | 0.7923            | 0.7883            | 0.7880   | 0.7828     |
| N° 11      | 0.7959          | 0.7937          | 0.7968           | 0.7984           | 0.7975           | 0.7940           | 0.7944           | 0.7933            | 0.7952            | 0.7933            | 0.7976            | 0.7926            | 0.7922   | 0.7866     |
| N° 12      | 0.7913          | 0.7896          | 0.7938           | 0.7936           | 0.7940           | 0.7892           | 0.7901           | 0.7886            | 0.7893            | 0.7877            | 0.7904            | 0.7869            | 0.7863   | 0.7814     |
| N° 13      | 0.7950          | 0.7930          | 0.7967           | 0.7976           | 0.7967           | 0.7933           | 0.7935           | 0.7916            | 0.7921            | 0.7912            | 0.7943            | 0.7846            | 0.7896   | 0.7856     |
| N° 14      | 0.7983          | 0.7967          | 0.7993           | 0.8010           | 0.8000           | 0.7961           | 0.7964           | 0.7956            | 0.7973            | 0.7950            | 0.7981            | 0.7951            | 0.7945   | 0.7899     |
| N° 15      | 0.8084          | 0.8072          | 0.8098           | 0.8109           | 0.8100           | 0.8060           | 0.8074           | 0.8069            | 0.8103            | 0.8074            | 0.8133            | 0.8093            | 0.8098   | 0.8031     |
| N° 16      | 0.7959          | 0.7962          | 0.7975           | 0.7989           | 0.7986           | 0.7942           | 0.7947           | 0.7941            | 0.7969            | 0.7926            | 0.7949            | 0.7920            | 0.7914   | 0.7874     |
| N° 17      | 0.8014          | 0.8005          | 0.8027           | 0.8035           | 0.8029           | 0.7992           | 0.8002           | 0.7993            | 0.8017            | 0.7981            | 0.8021            | 0.7947            | 0.7979   | 0.7938     |
| N° 18      | 0.8060          | 0.8044          | 0.8072           | 0.8082           | 0.8082           | 0.8035           | 0.8050           | 0.8041            | 0.8058            | 0.8048            | 0.8078            | 0.8066            | 0.8054   | 0.8000     |
| N° 19      | 0.7918          | 0.7914          | 0.7936           | 0.7942           | 0.7940           | 0.7903           | 0.7907           | 0.7896            | 0.7920            | 0.7893            | 0.7914            | 0.7888            | 0.7877   | 0.7838     |
| N° 20      | 0.8059          | 0.8071          | 0.8085           | 0.8088           | 0.8084           | 0.8036           | 0.8051           | 0.8045            | 0.8046            | 0.8035            | 0.8049            | 0.8029            | 0.8021   | 0.7979     |
| N° 21      | 0.7909          | 0.7920          | 0.7940           | 0.7945           | 0.7941           | 0.7893           | 0.7909           | 0.7896            | 0.7914            | 0.7887            | 0.7891            | 0.7871            | 0.7869   | 0.7824     |
| N° 22      | 0.7953          | 0.7945          | 0.7974           | 0.7979           | 0.7980           | 0.7924           | 0.7944           | 0.7941            | 0.7953            | 0.7941            | 0.7947            | 0.7888            | 0.7930   | 0.7878     |
| N° 23      | 0.7971          | 0.7967          | 0.7993           | 0.7998           | 0.7995           | 0.7944           | 0.7969           | 0.7957            | 0.7972            | 0.7953            | 0.7977            | 0.7939            | 0.7938   | 0.7882     |
| N° 24      | 0.8125          | 0.8114          | 0.8149           | 0.8154           | 0.8157           | 0.8098           | 0.8130           | 0.8120            | 0.8143            | 0.8124            | 0.8123            | 0.8117            | 0.8107   | 0.8053     |
| N° 25      | 0.8032          | 0.8026          | 0.8053           | 0.8066           | 0.8063           | 0.8007           | 0.8036           | 0.8022            | 0.8044            | 0.8023            | 0.8009            | 0.8010            | 0.8008   | 0.7952     |
| N° 26      | 0.8111          | 0.8105          | 0.8132           | 0.8135           | 0.8160           | 0.8083           | 0.8112           | 0.8107            | 0.8111            | 0.8118            | 0.8117            | 0.8114            | 0.8105   | 0.8042     |
| N° 27      | 0.7942          | 0.7936          | 0.7971           | 0.7969           | 0.7976           | 0.7922           | 0.7952           | 0.7934            | 0.7944            | 0.7941            | 0.7930            | 0.7928            | 0.7919   | 0.7861     |
| N° 28      | 0.7923          | 0.7907          | 0.7937           | 0.7946           | 0.7942           | 0.7887           | 0.7915           | 0.7903            | 0.7907            | 0.7900            | 0.7894            | 0.7884            | 0.7877   | 0.7824     |
| N° 29      | 0.8032          | 0.8018          | 0.8047           | 0.8059           | 0.8052           | 0.7988           | 0.8023           | 0.7995            | 0.7993            | 0.7977            | 0.7955            | 0.7930            | 0.7935   | 0.7913     |
| N° 30      | 0.8048          | 0.8030          | 0.8067           | 0.8077           | 0.8066           | 0.8015           | 0.8049           | 0.8039            | 0.7978            | 0.8039            | 0.8033            | 0.8025            | 0.8038   | 0.7960     |
| N° 31      | 0.8053          | 0.8042          | 0.8076           | 0.8082           | 0.8068           | 0.8020           | 0.8060           | 0.8035            | 0.8047            | 0.8024            | 0.8017            | 0.7950            | 0.7943   | 0.7953     |

## 2. Vout1

Ta=25°C; Vin=15V; IL=0mA; VO=10V



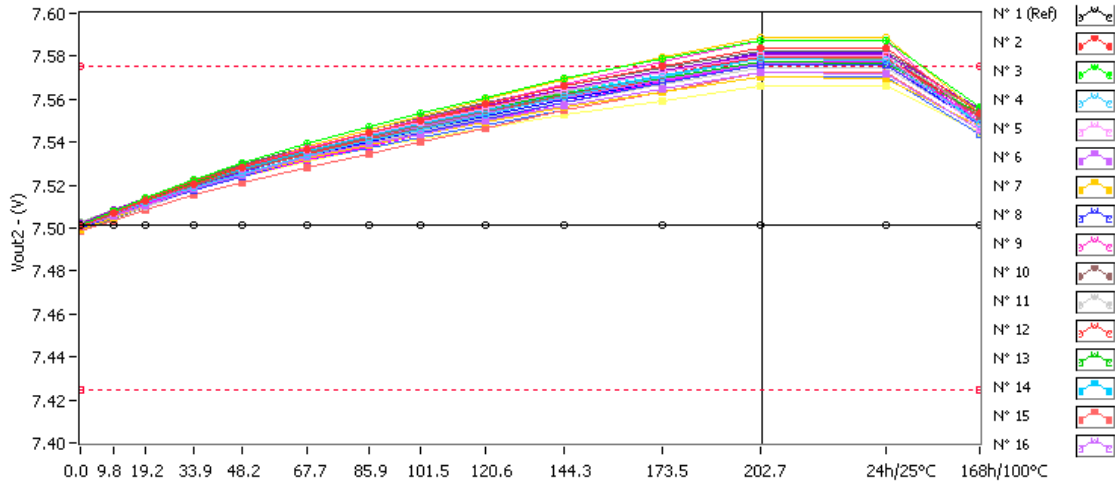
**Vout1 . (V)**

**Min = 9.9 Max = 10.1**

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 10.00215        | 10.00211        | 10.00195         | 10.00192         | 10.00192         | 10.00219         | 10.00222         | 10.00227          | 10.00216          | 10.00227          | 10.00186          | 10.00193          | 10.00216 | 10.00232   |
| N° 2       | 10.00219        | 10.01056        | 10.01859         | 10.03039         | 10.04058         | 10.05307         | 10.06351         | 10.07184          | 10.08163          | 10.09322          | 10.10577          | 10.11741          | 10.11708 | 10.07301   |
| N° 3       | 10.00207        | 10.01142        | 10.02008         | 10.03270         | 10.04335         | 10.05646         | 10.06729         | 10.07591          | 10.08602          | 10.09785          | 10.11066          | 10.12178          | 10.12144 | 10.07748   |
| N° 4       | 10.00150        | 10.00937        | 10.01657         | 10.02710         | 10.03617         | 10.04756         | 10.05717         | 10.06464          | 10.07377          | 10.08482          | 10.09694          | 10.10834          | 10.10805 | 10.06453   |
| N° 5       | 10.00231        | 10.01037        | 10.01835         | 10.03017         | 10.04033         | 10.05260         | 10.06264         | 10.07024          | 10.07888          | 10.08946          | 10.10071          | 10.11159          | 10.11149 | 10.06243   |
| N° 6       | 10.00269        | 10.00999        | 10.01706         | 10.02776         | 10.03678         | 10.04812         | 10.05668         | 10.06310          | 10.07056          | 10.07971          | 10.08999          | 10.10019          | 10.09988 | 10.06266   |
| N° 7       | 10.00061        | 10.00927        | 10.01692         | 10.02773         | 10.03696         | 10.04795         | 10.05693         | 10.06360          | 10.07152          | 10.08042          | 10.08997          | 10.09903          | 10.09880 | 10.06627   |
| N° 8       | 10.00087        | 10.00881        | 10.01596         | 10.02647         | 10.03554         | 10.04688         | 10.05643         | 10.06403          | 10.07274          | 10.08327          | 10.09537          | 10.10647          | 10.10621 | 10.06532   |
| N° 9       | 10.00147        | 10.00964        | 10.01809         | 10.03047         | 10.04128         | 10.05398         | 10.06427         | 10.07215          | 10.08159          | 10.09349          | 10.10708          | 10.12073          | 10.12053 | 10.06592   |
| N° 10      | 10.00145        | 10.00976        | 10.01750         | 10.02877         | 10.03874         | 10.05101         | 10.06075         | 10.06844          | 10.07733          | 10.08764          | 10.09879          | 10.10977          | 10.10938 | 10.07179   |
| N° 11      | 10.00065        | 10.00855        | 10.01588         | 10.02680         | 10.03644         | 10.04817         | 10.05758         | 10.06515          | 10.07363          | 10.08362          | 10.09436          | 10.10483          | 10.10472 | 10.06774   |
| N° 12      | 10.00108        | 10.00987        | 10.01807         | 10.03003         | 10.04014         | 10.05255         | 10.06239         | 10.06987          | 10.07879          | 10.08869          | 10.09992          | 10.11056          | 10.11001 | 10.06922   |
| N° 13      | 10.00173        | 10.01089        | 10.01899         | 10.03068         | 10.04060         | 10.05269         | 10.06239         | 10.06970          | 10.07807          | 10.08744          | 10.09734          | 10.10731          | 10.10686 | 10.07246   |
| N° 14      | 10.00065        | 10.00937        | 10.01733         | 10.02870         | 10.03862         | 10.05071         | 10.06068         | 10.06834          | 10.07719          | 10.08754          | 10.09892          | 10.10929          | 10.10891 | 10.07125   |
| N° 15      | 9.99943         | 10.00697        | 10.01371         | 10.02325         | 10.03162         | 10.04212         | 10.05091         | 10.05822          | 10.06697          | 10.07844          | 10.09055          | 10.10275          | 10.10239 | 10.06286   |
| N° 16      | 10.00102        | 10.00984        | 10.01783         | 10.02893         | 10.03842         | 10.04992         | 10.05910         | 10.06593          | 10.07443          | 10.08409          | 10.09478          | 10.10528          | 10.10428 | 10.06814   |
| N° 17      | 10.00184        | 10.01019        | 10.01844         | 10.03049         | 10.04102         | 10.05418         | 10.06520         | 10.07405          | 10.08466          | 10.09736          | 10.11116          | 10.12385          | 10.12360 | 10.07258   |
| N° 18      | 10.00262        | 10.01039        | 10.01701         | 10.02680         | 10.03519         | 10.04590         | 10.05492         | 10.06218          | 10.07139          | 10.08278          | 10.09593          | 10.10802          | 10.10803 | 10.06918   |
| N° 19      | 10.00277        | 10.01168        | 10.01977         | 10.03136         | 10.04122         | 10.05355         | 10.06331         | 10.07109          | 10.08015          | 10.09093          | 10.10235          | 10.11269          | 10.11245 | 10.07646   |
| N° 20      | 10.00310        | 10.01102        | 10.01869         | 10.02967         | 10.03915         | 10.05104         | 10.06076         | 10.06837          | 10.07761          | 10.08842          | 10.10065          | 10.11187          | 10.11164 | 10.07127   |
| N° 21      | 10.00255        | 10.01060        | 10.01875         | 10.03055         | 10.04067         | 10.05293         | 10.06269         | 10.07001          | 10.07902          | 10.08897          | 10.10110          | 10.11204          | 10.11085 | 10.06591   |
| N° 22      | 10.00111        | 10.00985        | 10.01772         | 10.02882         | 10.03830         | 10.05000         | 10.05950         | 10.06693          | 10.07584          | 10.08616          | 10.09774          | 10.10798          | 10.10746 | 10.07237   |
| N° 23      | 10.00148        | 10.01044        | 10.01876         | 10.03076         | 10.04108         | 10.05371         | 10.06376         | 10.07168          | 10.08098          | 10.09170          | 10.10303          | 10.11374          | 10.11331 | 10.07406   |
| N° 24      | 10.00187        | 10.00908        | 10.01585         | 10.02583         | 10.03431         | 10.04502         | 10.05340         | 10.06010          | 10.06782          | 10.07718          | 10.08767          | 10.09742          | 10.09722 | 10.05876   |
| N° 25      | 10.00078        | 10.00934        | 10.01722         | 10.02837         | 10.03792         | 10.04972         | 10.05918         | 10.06668          | 10.07535          | 10.08585          | 10.09752          | 10.10824          | 10.10794 | 10.06951   |
| N° 26      | 10.00143        | 10.00971        | 10.01723         | 10.02797         | 10.03691         | 10.04849         | 10.05768         | 10.06502          | 10.07373          | 10.08411          | 10.09581          | 10.10588          | 10.10576 | 10.06571   |
| N° 27      | 10.00182        | 10.01031        | 10.01816         | 10.02947         | 10.03893         | 10.05084         | 10.06059         | 10.06833          | 10.07735          | 10.08784          | 10.09952          | 10.10979          | 10.10943 | 10.07481   |
| N° 28      | 9.99875         | 10.00758        | 10.01556         | 10.02717         | 10.03717         | 10.04949         | 10.05940         | 10.06714          | 10.07617          | 10.08664          | 10.09823          | 10.10832          | 10.10792 | 10.07336   |
| N° 29      | 10.00171        | 10.00924        | 10.01698         | 10.02852         | 10.03872         | 10.05109         | 10.06046         | 10.06812          | 10.07706          | 10.08811          | 10.10085          | 10.11303          | 10.11266 | 10.06570   |
| N° 30      | 10.00129        | 10.00881        | 10.01572         | 10.02556         | 10.03408         | 10.04440         | 10.05234         | 10.05834          | 10.06540          | 10.07328          | 10.08254          | 10.09158          | 10.09119 | 10.05940   |
| N° 31      | 10.00130        | 10.00958        | 10.01727         | 10.02874         | 10.03876         | 10.05071         | 10.06001         | 10.06737          | 10.07563          | 10.08581          | 10.09805          | 10.10972          | 10.10956 | 10.06878   |

### 3. Vout2

Ta=25°C; Vin=15V; IL=0mA; VO=7.5V



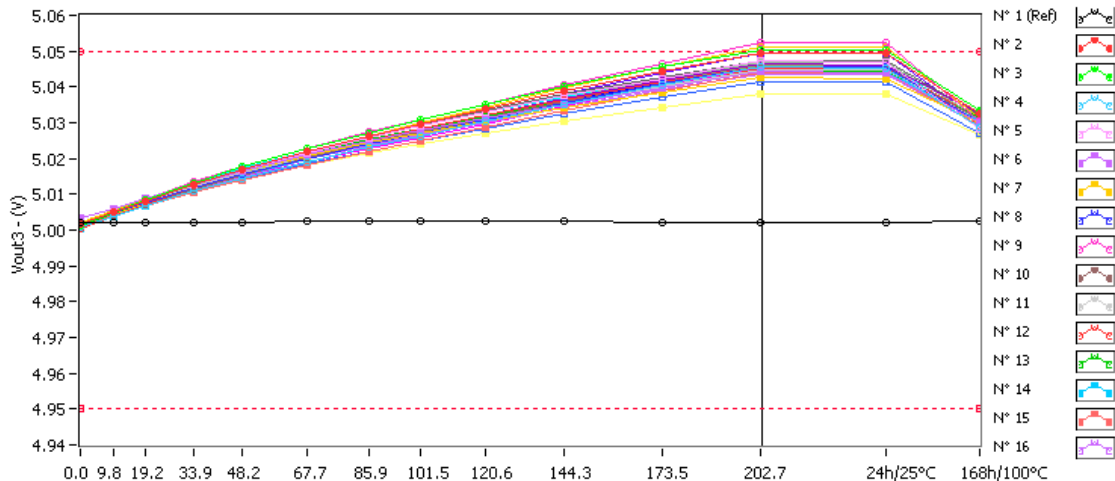
**Vout2 . (V) Min = 7.425 Max = 7.575**

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |         |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|---------|
| N° 1 (Ref) | 7.50134         | 7.50132         | 7.50122          | 7.50118          | 7.50120          | 7.50138          | 7.50138          | 7.50138           | 7.50125           | 7.50135           | 7.50143           | 7.50116           | 7.50120  | 7.50134    | 7.50144 |
| N° 2       | 7.50104         | 7.50679         | 7.51238          | 7.52062          | 7.52782          | 7.53668          | 7.54423          | 7.55023           | 7.55749           | 7.56603           | 7.57544           | 7.58415           | 7.58390  | 7.55321    |         |
| N° 3       | 7.50137         | 7.50781         | 7.51384          | 7.52264          | 7.53014          | 7.53943          | 7.54716          | 7.55338           | 7.56079           | 7.56947           | 7.57895           | 7.58720           | 7.58706  | 7.55655    |         |
| N° 4       | 7.50140         | 7.50685         | 7.51188          | 7.51925          | 7.52564          | 7.53375          | 7.54069          | 7.54611           | 7.55288           | 7.56112           | 7.57015           | 7.57868           | 7.57850  | 7.54831    |         |
| N° 5       | 7.50127         | 7.50684         | 7.51241          | 7.52069          | 7.52788          | 7.53661          | 7.54388          | 7.54947           | 7.55594           | 7.56380           | 7.57239           | 7.58033           | 7.58041  | 7.54617    |         |
| N° 6       | 7.50080         | 7.50581         | 7.51076          | 7.51825          | 7.52464          | 7.53281          | 7.53913          | 7.54397           | 7.54973           | 7.55671           | 7.56464           | 7.57226           | 7.57209  | 7.54596    |         |
| N° 7       | 7.49924         | 7.50521         | 7.51054          | 7.51811          | 7.52461          | 7.53240          | 7.53885          | 7.54371           | 7.54953           | 7.55616           | 7.56339           | 7.57013           | 7.56998  | 7.54750    |         |
| N° 8       | 7.49988         | 7.50536         | 7.51035          | 7.51772          | 7.52412          | 7.53214          | 7.53902          | 7.54450           | 7.55084           | 7.55864           | 7.56775           | 7.57606           | 7.57587  | 7.54763    |         |
| N° 9       | 7.50013         | 7.50576         | 7.51165          | 7.52033          | 7.52797          | 7.53712          | 7.54472          | 7.55062           | 7.55783           | 7.56676           | 7.57714           | 7.58713           | 7.58699  | 7.54833    |         |
| N° 10      | 7.50066         | 7.50640         | 7.51177          | 7.51966          | 7.52668          | 7.53536          | 7.54239          | 7.54798           | 7.55450           | 7.56213           | 7.57055           | 7.57873           | 7.57845  | 7.55228    |         |
| N° 11      | 7.49941         | 7.50485         | 7.50996          | 7.51759          | 7.52438          | 7.53268          | 7.53941          | 7.54490           | 7.55115           | 7.55844           | 7.56662           | 7.57434           | 7.57433  | 7.54880    |         |
| N° 12      | 7.50136         | 7.50742         | 7.51315          | 7.52154          | 7.52865          | 7.53748          | 7.54456          | 7.54999           | 7.55658           | 7.56379           | 7.57234           | 7.57987           | 7.57991  | 7.55154    |         |
| N° 13      | 7.50130         | 7.50761         | 7.51326          | 7.52143          | 7.52839          | 7.53697          | 7.54394          | 7.54926           | 7.55544           | 7.56241           | 7.56993           | 7.57732           | 7.57699  | 7.55320    |         |
| N° 14      | 7.50074         | 7.50675         | 7.51228          | 7.52021          | 7.52720          | 7.53571          | 7.54286          | 7.54834           | 7.55481           | 7.56240           | 7.57094           | 7.57861           | 7.57829  | 7.55244    |         |
| N° 15      | 7.49856         | 7.50378         | 7.50850          | 7.51518          | 7.52110          | 7.52849          | 7.53480          | 7.54004           | 7.54644           | 7.55474           | 7.56369           | 7.57269           | 7.57247  | 7.54552    |         |
| N° 16      | 7.50113         | 7.50723         | 7.51281          | 7.52060          | 7.52729          | 7.53547          | 7.54207          | 7.54701           | 7.55339           | 7.56065           | 7.56881           | 7.57644           | 7.57589  | 7.55072    |         |
| N° 17      | 7.50110         | 7.50685         | 7.51259          | 7.52101          | 7.52840          | 7.53770          | 7.54561          | 7.55200           | 7.55974           | 7.56905           | 7.57925           | 7.58867           | 7.58846  | 7.55317    |         |
| N° 18      | 7.50154         | 7.50689         | 7.51152          | 7.51837          | 7.52429          | 7.53184          | 7.53829          | 7.54354           | 7.55024           | 7.55853           | 7.56818           | 7.57709           | 7.57717  | 7.55059    |         |
| N° 19      | 7.50200         | 7.50814         | 7.51377          | 7.52187          | 7.52881          | 7.53750          | 7.54451          | 7.55013           | 7.55676           | 7.56472           | 7.57326           | 7.58087           | 7.58077  | 7.55591    |         |
| N° 20      | 7.50265         | 7.50812         | 7.51347          | 7.52115          | 7.52783          | 7.53627          | 7.54328          | 7.54882           | 7.55565           | 7.56370           | 7.57289           | 7.58127           | 7.58115  | 7.55311    |         |
| N° 21      | 7.50184         | 7.50740         | 7.51310          | 7.52135          | 7.52850          | 7.53721          | 7.54427          | 7.54962           | 7.55619           | 7.56369           | 7.57263           | 7.58072           | 7.58010  | 7.54889    |         |
| N° 22      | 7.50056         | 7.50660         | 7.51208          | 7.51984          | 7.52653          | 7.53476          | 7.54156          | 7.54696           | 7.55344           | 7.56105           | 7.56967           | 7.57735           | 7.57698  | 7.55279    |         |
| N° 23      | 7.50171         | 7.50788         | 7.51368          | 7.52209          | 7.52934          | 7.53827          | 7.54554          | 7.55128           | 7.55810           | 7.56603           | 7.57452           | 7.58251           | 7.58220  | 7.55491    |         |
| N° 24      | 7.50106         | 7.50603         | 7.51079          | 7.51779          | 7.52379          | 7.53141          | 7.53749          | 7.54240           | 7.54817           | 7.55519           | 7.56309           | 7.57047           | 7.57032  | 7.54375    |         |
| N° 25      | 7.50185         | 7.50776         | 7.51325          | 7.52109          | 7.52784          | 7.53621          | 7.54303          | 7.54848           | 7.55485           | 7.56267           | 7.57133           | 7.57942           | 7.57924  | 7.55259    |         |
| N° 26      | 7.50084         | 7.50655         | 7.51180          | 7.51933          | 7.52567          | 7.53384          | 7.54047          | 7.54582           | 7.55212           | 7.55982           | 7.56858           | 7.57602           | 7.57603  | 7.54833    |         |
| N° 27      | 7.50118         | 7.50704         | 7.51252          | 7.52040          | 7.52706          | 7.53546          | 7.54249          | 7.54804           | 7.55467           | 7.56241           | 7.57116           | 7.57887           | 7.57864  | 7.55473    |         |
| N° 28      | 7.49845         | 7.50453         | 7.51009          | 7.51822          | 7.52521          | 7.53390          | 7.54100          | 7.54660           | 7.55322           | 7.56096           | 7.56960           | 7.57714           | 7.57688  | 7.55301    |         |
| N° 29      | 7.50034         | 7.50553         | 7.51099          | 7.51904          | 7.52627          | 7.53517          | 7.54216          | 7.54789           | 7.55471           | 7.56316           | 7.57285           | 7.58195           | 7.58173  | 7.54832    |         |
| N° 30      | 7.50109         | 7.50626         | 7.51107          | 7.51797          | 7.52398          | 7.53132          | 7.53704          | 7.54146           | 7.54667           | 7.55260           | 7.55945           | 7.56620           | 7.56590  | 7.54426    |         |
| N° 31      | 7.50120         | 7.50693         | 7.51229          | 7.52032          | 7.52738          | 7.53589          | 7.54262          | 7.54808           | 7.55422           | 7.56171           | 7.57093           | 7.57969           | 7.57957  | 7.55126    |         |



## 4. Vout3

Ta=25°C; Vin=15V; IL=0mA; VO=5.0V



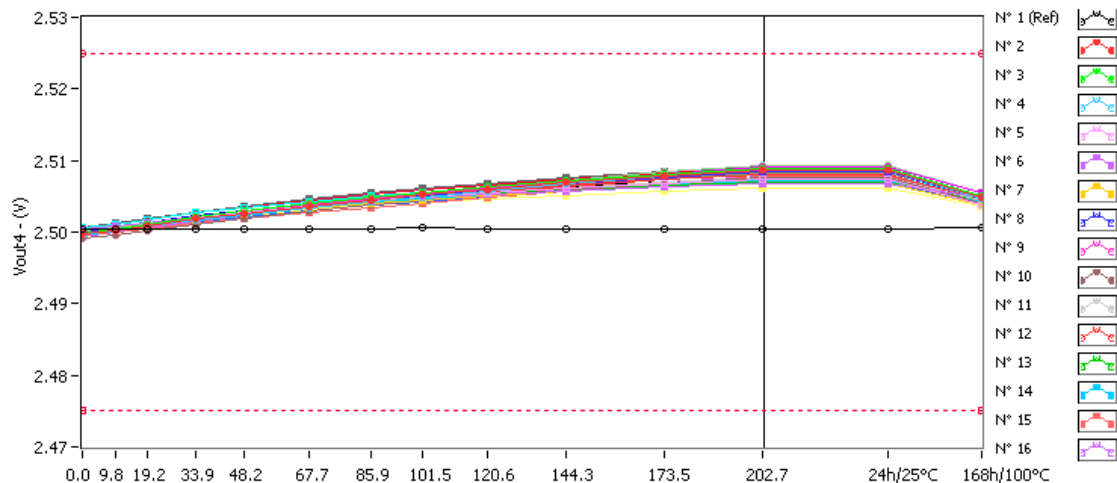
**Vout3 . (V) Min = 4.95 Max = 5.05**

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 5.00230         | 5.00230         | 5.00224          | 5.00224          | 5.00224          | 5.00233          | 5.00236          | 5.00233           | 5.00234           | 5.00236           | 5.00221           | 5.00225           | 5.00231  | 5.00238    |
| N° 2       | 5.00184         | 5.00500         | 5.00813          | 5.01276          | 5.01685          | 5.02189          | 5.02621          | 5.02973           | 5.03391           | 5.03897           | 5.04449           | 5.04954           | 5.04942  | 5.03234    |
| N° 3       | 5.00146         | 5.00498         | 5.00837          | 5.01330          | 5.01754          | 5.02281          | 5.02722          | 5.03080           | 5.03507           | 5.04010           | 5.04556           | 5.05048           | 5.05033  | 5.03343    |
| N° 4       | 5.00081         | 5.00381         | 5.00663          | 5.01081          | 5.01442          | 5.01907          | 5.02306          | 5.02629           | 5.03023           | 5.03504           | 5.04048           | 5.04546           | 5.04541  | 5.02853    |
| N° 5       | 5.00182         | 5.00488         | 5.00801          | 5.01268          | 5.01673          | 5.02171          | 5.02591          | 5.02911           | 5.03289           | 5.03742           | 5.04244           | 5.04720           | 5.04705  | 5.02825    |
| N° 6       | 5.00318         | 5.00592         | 5.00867          | 5.01288          | 5.01651          | 5.02117          | 5.02484          | 5.02771           | 5.03110           | 5.03520           | 5.03985           | 5.04426           | 5.04414  | 5.03003    |
| N° 7       | 5.00210         | 5.00537         | 5.00835          | 5.01263          | 5.01631          | 5.02074          | 5.02441          | 5.02721           | 5.03055           | 5.03438           | 5.03861           | 5.04255           | 5.04241  | 5.03005    |
| N° 8       | 5.00191         | 5.00490         | 5.00770          | 5.01184          | 5.01549          | 5.02006          | 5.02402          | 5.02719           | 5.03098           | 5.03559           | 5.04078           | 5.04568           | 5.04559  | 5.02980    |
| N° 9       | 5.00212         | 5.00522         | 5.00852          | 5.01341          | 5.01775          | 5.02299          | 5.02744          | 5.03091           | 5.03518           | 5.04050           | 5.04653           | 5.05231           | 5.05222  | 5.03063    |
| N° 10      | 5.00080         | 5.00394         | 5.00693          | 5.01138          | 5.01535          | 5.02029          | 5.02432          | 5.02755           | 5.03136           | 5.03583           | 5.04076           | 5.04554           | 5.04542  | 5.03086    |
| N° 11      | 5.00200         | 5.00498         | 5.00782          | 5.01214          | 5.01600          | 5.02070          | 5.02456          | 5.02773           | 5.03132           | 5.03569           | 5.04032           | 5.04491           | 5.04482  | 5.03082    |
| N° 12      | 5.00062         | 5.00395         | 5.00717          | 5.01191          | 5.01593          | 5.02092          | 5.02499          | 5.02814           | 5.03194           | 5.03634           | 5.04122           | 5.04568           | 5.04549  | 5.02975    |
| N° 13      | 5.00123         | 5.00469         | 5.00784          | 5.01243          | 5.01635          | 5.02121          | 5.02516          | 5.02819           | 5.03176           | 5.03576           | 5.04010           | 5.04436           | 5.04419  | 5.03123    |
| N° 14      | 5.00050         | 5.00378         | 5.00685          | 5.01131          | 5.01522          | 5.02004          | 5.02410          | 5.02727           | 5.03094           | 5.03527           | 5.04017           | 5.04458           | 5.04447  | 5.03042    |
| N° 15      | 5.00138         | 5.00425         | 5.00689          | 5.01066          | 5.01402          | 5.01821          | 5.02181          | 5.02484           | 5.02856           | 5.03335           | 5.03867           | 5.04384           | 5.04376  | 5.02907    |
| N° 16      | 5.00031         | 5.00366         | 5.00680          | 5.01121          | 5.01500          | 5.01967          | 5.02353          | 5.02648           | 5.03007           | 5.03442           | 5.03921           | 5.04359           | 5.04350  | 5.02929    |
| N° 17      | 5.00116         | 5.00431         | 5.00753          | 5.01225          | 5.01641          | 5.02168          | 5.02619          | 5.02986           | 5.03430           | 5.03972           | 5.04568           | 5.05109           | 5.05100  | 5.03142    |
| N° 18      | 5.00193         | 5.00488         | 5.00748          | 5.01133          | 5.01469          | 5.01898          | 5.02270          | 5.02583           | 5.02964           | 5.03451           | 5.04026           | 5.04549           | 5.04550  | 5.03087    |
| N° 19      | 5.00128         | 5.00464         | 5.00780          | 5.01231          | 5.01625          | 5.02115          | 5.02515          | 5.02835           | 5.03220           | 5.03682           | 5.04181           | 5.04633           | 5.04619  | 5.03250    |
| N° 20      | 5.00169         | 5.00469         | 5.00768          | 5.01201          | 5.01579          | 5.02061          | 5.02467          | 5.02789           | 5.03189           | 5.03667           | 5.04211           | 5.04710           | 5.04702  | 5.03140    |
| N° 21      | 5.00222         | 5.00528         | 5.00849          | 5.01316          | 5.01719          | 5.02210          | 5.02614          | 5.02922           | 5.03297           | 5.03736           | 5.04238           | 5.04700           | 5.04687  | 5.02973    |
| N° 22      | 5.00141         | 5.00470         | 5.00777          | 5.01212          | 5.01590          | 5.02058          | 5.02446          | 5.02756           | 5.03131           | 5.03578           | 5.04075           | 5.04523           | 5.04506  | 5.03174    |
| N° 23      | 5.00133         | 5.00471         | 5.00796          | 5.01268          | 5.01679          | 5.02186          | 5.02600          | 5.02931           | 5.03327           | 5.03787           | 5.04283           | 5.04743           | 5.04726  | 5.03213    |
| N° 24      | 5.00150         | 5.00422         | 5.00689          | 5.01086          | 5.01426          | 5.01860          | 5.02211          | 5.02497           | 5.02835           | 5.03245           | 5.03711           | 5.04145           | 5.04135  | 5.02689    |
| N° 25      | 5.00056         | 5.00380         | 5.00688          | 5.01131          | 5.01515          | 5.01990          | 5.02387          | 5.02700           | 5.03073           | 5.03528           | 5.04049           | 5.04509           | 5.04494  | 5.03019    |
| N° 26      | 5.00195         | 5.00507         | 5.00803          | 5.01230          | 5.01591          | 5.02058          | 5.02442          | 5.02751           | 5.03127           | 5.03578           | 5.04085           | 5.04536           | 5.04526  | 5.02977    |
| N° 27      | 5.00160         | 5.00480         | 5.00786          | 5.01227          | 5.01603          | 5.02078          | 5.02480          | 5.02804           | 5.03189           | 5.03639           | 5.04154           | 5.04602           | 5.04588  | 5.03273    |
| N° 28      | 5.00097         | 5.00430         | 5.00741          | 5.01196          | 5.01589          | 5.02081          | 5.02482          | 5.02804           | 5.03185           | 5.03633           | 5.04139           | 5.04571           | 5.04559  | 5.03254    |
| N° 29      | 5.00174         | 5.00460         | 5.00761          | 5.01222          | 5.01633          | 5.02148          | 5.02560          | 5.02904           | 5.03313           | 5.03824           | 5.04403           | 5.04938           | 5.04924  | 5.03029    |
| N° 30      | 5.00120         | 5.00401         | 5.00670          | 5.01062          | 5.01399          | 5.01816          | 5.02145          | 5.02397           | 5.02696           | 5.03048           | 5.03441           | 5.03809           | 5.03805  | 5.02644    |
| N° 31      | 5.00122         | 5.00437         | 5.00737          | 5.01188          | 5.01586          | 5.02068          | 5.02456          | 5.02766           | 5.03124           | 5.03576           | 5.04103           | 5.04599           | 5.04590  | 5.03047    |



## 5. Vout4

Ta=25°C; Vin=15V; IL=0mA; VO=2.5V

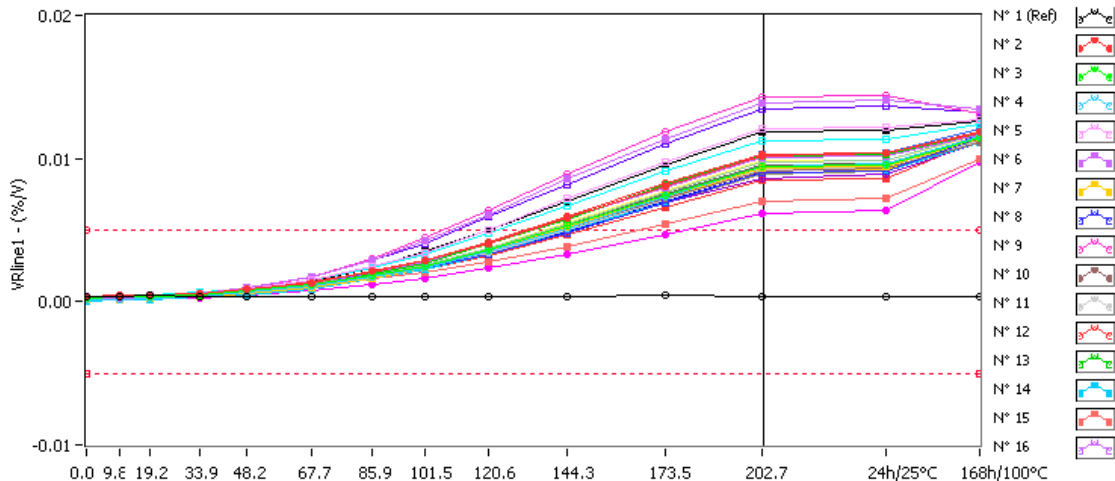


**Vout4 . (V) Min = 2.475 Max = 2.525**

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 2.50051         | 2.50051         | 2.50050          | 2.50051          | 2.50051          | 2.50052          | 2.50052          | 2.50053           | 2.50052           | 2.50053           | 2.50051           | 2.50052           | 2.50052  | 2.50053    |
| N° 2       | 2.49975         | 2.50026         | 2.50088          | 2.50181          | 2.50263          | 2.50362          | 2.50449          | 2.50518           | 2.50600           | 2.50694           | 2.50792           | 2.50874           | 2.50874  | 2.50487    |
| N° 3       | 2.49980         | 2.50038         | 2.50105          | 2.50203          | 2.50289          | 2.50392          | 2.50476          | 2.50543           | 2.50624           | 2.50712           | 2.50806           | 2.50882           | 2.50881  | 2.50497    |
| N° 4       | 2.49981         | 2.50033         | 2.50088          | 2.50173          | 2.50248          | 2.50344          | 2.50428          | 2.50495           | 2.50577           | 2.50670           | 2.50775           | 2.50861           | 2.50862  | 2.50462    |
| N° 5       | 2.49979         | 2.50029         | 2.50092          | 2.50187          | 2.50268          | 2.50362          | 2.50439          | 2.50493           | 2.50552           | 2.50616           | 2.50685           | 2.50748           | 2.50744  | 2.50381    |
| N° 6       | 2.50039         | 2.50080         | 2.50130          | 2.50209          | 2.50278          | 2.50365          | 2.50428          | 2.50475           | 2.50526           | 2.50580           | 2.50634           | 2.50680           | 2.50678  | 2.50483    |
| N° 7       | 2.49975         | 2.50024         | 2.50085          | 2.50172          | 2.50248          | 2.50335          | 2.50405          | 2.50454           | 2.50510           | 2.50566           | 2.50628           | 2.50678           | 2.50676  | 2.50379    |
| N° 8       | 2.49998         | 2.50046         | 2.50101          | 2.50185          | 2.50261          | 2.50354          | 2.50437          | 2.50500           | 2.50577           | 2.50667           | 2.50761           | 2.50849           | 2.50848  | 2.50458    |
| N° 9       | 2.49992         | 2.50043         | 2.50108          | 2.50203          | 2.50288          | 2.50389          | 2.50473          | 2.50536           | 2.50610           | 2.50699           | 2.50796           | 2.50880           | 2.50879  | 2.50459    |
| N° 10      | 2.49906         | 2.49957         | 2.50016          | 2.50107          | 2.50189          | 2.50289          | 2.50370          | 2.50434           | 2.50507           | 2.50589           | 2.50678           | 2.50760           | 2.50760  | 2.50403    |
| N° 11      | 2.49983         | 2.50030         | 2.50086          | 2.50172          | 2.50252          | 2.50346          | 2.50422          | 2.50481           | 2.50545           | 2.50616           | 2.50687           | 2.50755           | 2.50755  | 2.50446    |
| N° 12      | 2.49991         | 2.50045         | 2.50111          | 2.50209          | 2.50291          | 2.50389          | 2.50468          | 2.50524           | 2.50590           | 2.50659           | 2.50734           | 2.50796           | 2.50793  | 2.50439    |
| N° 13      | 2.49993         | 2.50050         | 2.50110          | 2.50200          | 2.50276          | 2.50367          | 2.50440          | 2.50488           | 2.50543           | 2.50595           | 2.50647           | 2.50700           | 2.50698  | 2.50439    |
| N° 14      | 2.49966         | 2.50016         | 2.50075          | 2.50163          | 2.50239          | 2.50330          | 2.50407          | 2.50462           | 2.50521           | 2.50588           | 2.50655           | 2.50711           | 2.50711  | 2.50420    |
| N° 15      | 2.49950         | 2.49997         | 2.50049          | 2.50124          | 2.50192          | 2.50273          | 2.50345          | 2.50407           | 2.50483           | 2.50577           | 2.50685           | 2.50784           | 2.50784  | 2.50472    |
| N° 16      | 2.49944         | 2.49998         | 2.50062          | 2.50155          | 2.50235          | 2.50330          | 2.50408          | 2.50465           | 2.50534           | 2.50612           | 2.50699           | 2.50771           | 2.50772  | 2.50419    |
| N° 17      | 2.49954         | 2.50005         | 2.50068          | 2.50161          | 2.50245          | 2.50347          | 2.50437          | 2.50509           | 2.50596           | 2.50695           | 2.50800           | 2.50888           | 2.50888  | 2.50452    |
| N° 18      | 2.49995         | 2.50044         | 2.50094          | 2.50172          | 2.50242          | 2.50331          | 2.50412          | 2.50482           | 2.50566           | 2.50676           | 2.50803           | 2.50912           | 2.50914  | 2.50545    |
| N° 19      | 2.49959         | 2.50012         | 2.50072          | 2.50161          | 2.50239          | 2.50334          | 2.50410          | 2.50469           | 2.50540           | 2.50622           | 2.50704           | 2.50774           | 2.50772  | 2.50452    |
| N° 20      | 2.50026         | 2.50074         | 2.50132          | 2.50220          | 2.50298          | 2.50398          | 2.50484          | 2.50550           | 2.50633           | 2.50728           | 2.50835           | 2.50929           | 2.50928  | 2.50549    |
| N° 21      | 2.50054         | 2.50106         | 2.50170          | 2.50264          | 2.50344          | 2.50433          | 2.50507          | 2.50558           | 2.50617           | 2.50679           | 2.50746           | 2.50810           | 2.50808  | 2.50469    |
| N° 22      | 2.49986         | 2.50037         | 2.50098          | 2.50185          | 2.50261          | 2.50352          | 2.50430          | 2.50491           | 2.50562           | 2.50643           | 2.50731           | 2.50803           | 2.50800  | 2.50470    |
| N° 23      | 2.50068         | 2.50124         | 2.50189          | 2.50285          | 2.50368          | 2.50468          | 2.50550          | 2.50613           | 2.50685           | 2.50761           | 2.50839           | 2.50907           | 2.50904  | 2.50543    |
| N° 24      | 2.49973         | 2.50015         | 2.50069          | 2.50151          | 2.50221          | 2.50305          | 2.50375          | 2.50430           | 2.50491           | 2.50562           | 2.50636           | 2.50707           | 2.50706  | 2.50405    |
| N° 25      | 2.50063         | 2.50114         | 2.50177          | 2.50271          | 2.50352          | 2.50448          | 2.50529          | 2.50591           | 2.50663           | 2.50743           | 2.50832           | 2.50906           | 2.50904  | 2.50556    |
| N° 26      | 2.50025         | 2.50073         | 2.50134          | 2.50224          | 2.50304          | 2.50401          | 2.50485          | 2.50549           | 2.50625           | 2.50713           | 2.50807           | 2.50882           | 2.50881  | 2.50475    |
| N° 27      | 2.50005         | 2.50055         | 2.50115          | 2.50201          | 2.50277          | 2.50368          | 2.50450          | 2.50513           | 2.50587           | 2.50669           | 2.50758           | 2.50831           | 2.50830  | 2.50516    |
| N° 28      | 2.49976         | 2.50029         | 2.50090          | 2.50178          | 2.50255          | 2.50347          | 2.50423          | 2.50480           | 2.50546           | 2.50620           | 2.50698           | 2.50756           | 2.50756  | 2.50470    |
| N° 29      | 2.49944         | 2.49990         | 2.50051          | 2.50144          | 2.50229          | 2.50336          | 2.50425          | 2.50497           | 2.50582           | 2.50686           | 2.50794           | 2.50888           | 2.50886  | 2.50443    |
| N° 30      | 2.50003         | 2.50042         | 2.50095          | 2.50174          | 2.50240          | 2.50320          | 2.50381          | 2.50422           | 2.50466           | 2.50515           | 2.50565           | 2.50611           | 2.50614  | 2.50366    |
| N° 31      | 2.50018         | 2.50072         | 2.50130          | 2.50220          | 2.50298          | 2.50387          | 2.50456          | 2.50507           | 2.50560           | 2.50623           | 2.50699           | 2.50766           | 2.50765  | 2.50485    |

## 6. VRline1

Ta=25°C; 12.5V<Vin<15V; VO=10V



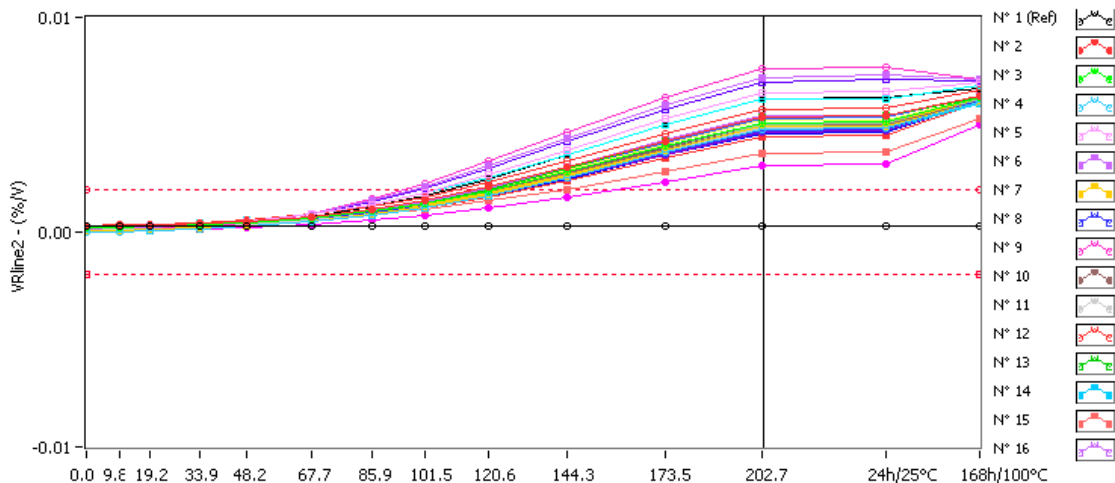
**VRline1 . (%/V)**

Min = -0.005 Max = 0.005

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 3.66E-4         | 4.02E-4         | 4.06E-4          | 3.78E-4          | 4.03E-4          | 3.78E-4          | 3.93E-4          | 3.65E-4           | 3.83E-4           | 3.62E-4           | 4.10E-4           | 3.54E-4           | 3.48E-4  | 3.91E-4    |
| N° 2       | 3.47E-4         | 4.13E-4         | 4.51E-4          | 5.33E-4          | 8.68E-4          | 1.35E-3          | 2.10E-3          | 2.87E-3           | 4.05E-3           | 5.80E-3           | 8.08E-3           | 1.02E-2           | 1.03E-2  | 1.18E-2    |
| N° 3       | 2.77E-4         | 3.03E-4         | 3.43E-4          | 4.57E-4          | 7.26E-4          | 1.15E-3          | 1.80E-3          | 2.51E-3           | 3.60E-3           | 5.30E-3           | 7.39E-3           | 9.40E-3           | 9.52E-3  | 1.14E-2    |
| N° 4       | 1.16E-4         | 1.36E-4         | 2.10E-4          | 3.93E-4          | 6.64E-4          | 1.05E-3          | 1.68E-3          | 2.40E-3           | 3.53E-3           | 5.11E-3           | 7.36E-3           | 9.39E-3           | 9.60E-3  | 1.16E-2    |
| N° 5       | 3.34E-4         | 3.60E-4         | 4.42E-4          | 6.12E-4          | 8.74E-4          | 1.47E-3          | 2.50E-3          | 3.45E-3           | 5.04E-3           | 7.24E-3           | 9.71E-3           | 1.21E-2           | 1.22E-2  | 1.27E-2    |
| N° 6       | 2.75E-4         | 2.76E-4         | 3.55E-4          | 6.02E-4          | 9.53E-4          | 1.74E-3          | 2.93E-3          | 4.22E-3           | 6.06E-3           | 8.54E-3           | 1.14E-2           | 1.39E-2           | 1.41E-2  | 1.34E-2    |
| N° 7       | 1.47E-4         | 1.86E-4         | 2.10E-4          | 3.66E-4          | 5.75E-4          | 1.02E-3          | 1.66E-3          | 2.37E-3           | 3.56E-3           | 5.17E-3           | 7.38E-3           | 9.36E-3           | 9.42E-3  | 1.14E-2    |
| N° 8       | 2.66E-4         | 3.02E-4         | 3.56E-4          | 4.68E-4          | 7.04E-4          | 1.10E-3          | 1.67E-3          | 2.36E-3           | 3.31E-3           | 4.83E-3           | 6.89E-3           | 8.97E-3           | 9.11E-3  | 1.15E-2    |
| N° 9       | 1.50E-4         | 1.69E-4         | 2.26E-4          | 4.58E-4          | 8.84E-4          | 1.75E-3          | 3.04E-3          | 4.46E-3           | 6.41E-3           | 8.91E-3           | 1.18E-2           | 1.42E-2           | 1.44E-2  | 1.31E-2    |
| N° 10      | 3.16E-4         | 3.61E-4         | 3.34E-4          | 5.65E-4          | 7.01E-4          | 1.20E-3          | 1.79E-3          | 2.42E-3           | 3.56E-3           | 5.08E-3           | 7.17E-3           | 9.11E-3           | 9.29E-3  | 1.11E-2    |
| N° 11      | 2.37E-4         | 2.31E-4         | 2.76E-4          | 4.37E-4          | 7.01E-4          | 1.06E-3          | 1.68E-3          | 2.40E-3           | 3.45E-3           | 5.05E-3           | 7.07E-3           | 9.20E-3           | 9.31E-3  | 1.12E-2    |
| N° 12      | 3.52E-4         | 4.15E-4         | 4.17E-4          | 5.48E-4          | 8.45E-4          | 1.43E-3          | 2.09E-3          | 2.87E-3           | 4.12E-3           | 5.95E-3           | 8.25E-3           | 1.03E-2           | 1.04E-2  | 1.17E-2    |
| N° 13      | 1.18E-4         | 2.00E-4         | 2.37E-4          | 3.97E-4          | 6.19E-4          | 1.11E-3          | 1.90E-3          | 2.72E-3           | 4.01E-3           | 5.76E-3           | 8.15E-3           | 1.02E-2           | 1.03E-2  | 1.17E-2    |
| N° 14      | 7.78E-5         | 1.06E-4         | 1.77E-4          | 3.27E-4          | 5.08E-4          | 9.20E-4          | 1.58E-3          | 2.25E-3           | 3.30E-3           | 5.01E-3           | 6.94E-3           | 8.96E-3           | 9.08E-3  | 1.11E-2    |
| N° 15      | 2.95E-4         | 3.09E-4         | 3.86E-4          | 5.14E-4          | 7.72E-4          | 1.07E-3          | 1.58E-3          | 2.01E-3           | 2.74E-3           | 3.88E-3           | 5.41E-3           | 7.04E-3           | 7.21E-3  | 9.96E-3    |
| N° 16      | 2.29E-4         | 2.87E-4         | 3.29E-4          | 5.15E-4          | 7.18E-4          | 1.21E-3          | 1.92E-3          | 2.73E-3           | 4.06E-3           | 5.81E-3           | 7.98E-3           | 1.01E-2           | 1.02E-2  | 1.16E-2    |
| N° 17      | 3.34E-4         | 3.55E-4         | 4.02E-4          | 5.46E-4          | 7.53E-4          | 1.20E-3          | 1.78E-3          | 2.45E-3           | 3.52E-3           | 5.13E-3           | 7.28E-3           | 9.21E-3           | 9.28E-3  | 1.15E-2    |
| N° 18      | 1.41E-4         | 1.35E-4         | 2.00E-4          | 2.94E-4          | 5.00E-4          | 8.14E-4          | 1.25E-3          | 1.59E-3           | 2.31E-3           | 3.30E-3           | 4.72E-3           | 6.20E-3           | 6.34E-3  | 9.79E-3    |
| N° 19      | 1.60E-4         | 2.00E-4         | 2.35E-4          | 3.69E-4          | 5.93E-4          | 9.97E-4          | 1.59E-3          | 2.29E-3           | 3.27E-3           | 4.81E-3           | 6.87E-3           | 8.64E-3           | 8.93E-3  | 1.12E-2    |
| N° 20      | 3.80E-4         | 3.50E-4         | 4.62E-4          | 6.07E-4          | 7.77E-4          | 1.25E-3          | 1.87E-3          | 2.62E-3           | 3.71E-3           | 5.46E-3           | 7.63E-3           | 9.75E-3           | 9.91E-3  | 1.18E-2    |
| N° 21      | 3.67E-4         | 4.01E-4         | 4.55E-4          | 6.49E-4          | 8.78E-4          | 1.49E-3          | 2.39E-3          | 3.28E-3           | 4.82E-3           | 6.70E-3           | 9.12E-3           | 1.13E-2           | 1.14E-2  | 1.24E-2    |
| N° 22      | 2.71E-4         | 3.55E-4         | 3.68E-4          | 5.22E-4          | 7.31E-4          | 1.04E-3          | 1.69E-3          | 2.21E-3           | 3.24E-3           | 4.71E-3           | 6.55E-3           | 8.54E-3           | 8.60E-3  | 1.13E-2    |
| N° 23      | 8.22E-5         | 1.26E-4         | 1.54E-4          | 3.42E-4          | 4.92E-4          | 9.87E-4          | 1.66E-3          | 2.48E-3           | 3.63E-3           | 5.29E-3           | 7.53E-3           | 9.50E-3           | 9.66E-3  | 1.16E-2    |
| N° 24      | 2.63E-4         | 2.91E-4         | 4.19E-4          | 4.86E-4          | 7.97E-4          | 1.28E-3          | 1.95E-3          | 2.79E-3           | 4.01E-3           | 5.81E-3           | 8.07E-3           | 1.03E-2           | 1.03E-2  | 1.21E-2    |
| N° 25      | 2.20E-4         | 2.23E-4         | 3.04E-4          | 4.12E-4          | 7.06E-4          | 1.16E-3          | 1.74E-3          | 2.49E-3           | 3.75E-3           | 5.33E-3           | 7.67E-3           | 9.77E-3           | 9.83E-3  | 1.17E-2    |
| N° 26      | 3.84E-4         | 3.83E-4         | 4.45E-4          | 5.88E-4          | 7.89E-4          | 1.19E-3          | 1.77E-3          | 2.34E-3           | 3.39E-3           | 4.88E-3           | 6.99E-3           | 9.00E-3           | 9.08E-3  | 1.16E-2    |
| N° 27      | 2.58E-4         | 3.03E-4         | 3.69E-4          | 5.24E-4          | 6.99E-4          | 1.16E-3          | 1.70E-3          | 2.27E-3           | 3.39E-3           | 4.93E-3           | 6.92E-3           | 8.91E-3           | 9.16E-3  | 1.14E-2    |
| N° 28      | 2.35E-4         | 2.54E-4         | 3.09E-4          | 4.79E-4          | 6.74E-4          | 1.14E-3          | 1.74E-3          | 2.44E-3           | 3.53E-3           | 5.22E-3           | 7.32E-3           | 9.42E-3           | 9.48E-3  | 1.15E-2    |
| N° 29      | 3.01E-4         | 3.22E-4         | 3.90E-4          | 6.41E-4          | 8.71E-4          | 1.75E-3          | 2.88E-3          | 4.08E-3           | 5.94E-3           | 8.20E-3           | 1.10E-2           | 1.34E-2           | 1.36E-2  | 1.33E-2    |
| N° 30      | 1.07E-4         | 1.20E-4         | 2.14E-4          | 3.77E-4          | 5.50E-4          | 9.94E-4          | 1.75E-3          | 2.57E-3           | 3.72E-3           | 5.48E-3           | 7.77E-3           | 9.87E-3           | 9.81E-3  | 1.16E-2    |
| N° 31      | 2.65E-4         | 2.93E-4         | 3.63E-4          | 5.12E-4          | 8.38E-4          | 1.40E-3          | 2.40E-3          | 3.47E-3           | 4.97E-3           | 7.03E-3           | 9.56E-3           | 1.19E-2           | 1.20E-2  | 1.26E-2    |

## 7. VRline2

Ta=25°C; 15V<Vin<30V; VO=10V



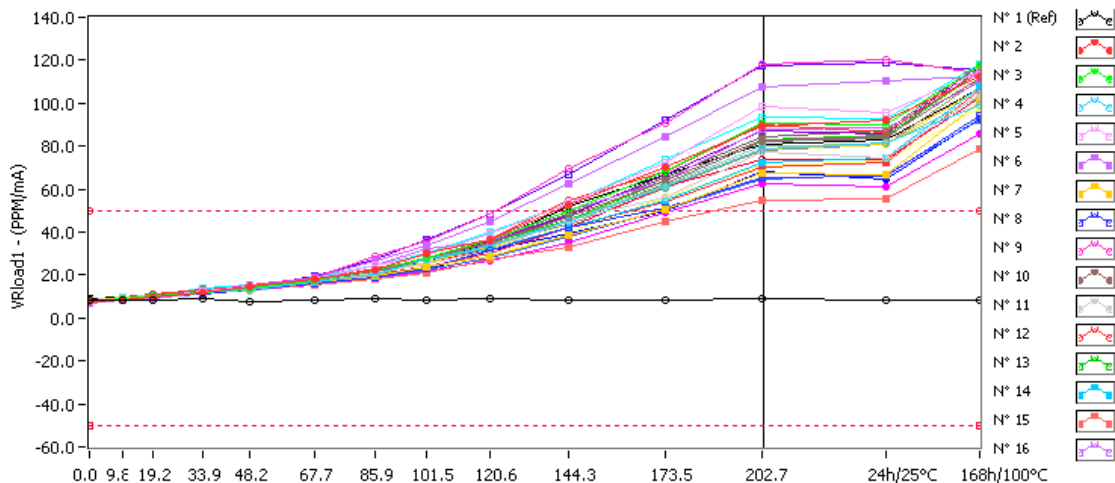
**VRline2 . (%/V)**

Min = -0.002 Max = 0.002

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 2.65E-4         | 2.69E-4         | 2.64E-4          | 2.71E-4          | 2.71E-4          | 2.63E-4          | 2.59E-4          | 2.59E-4           | 2.62E-4           | 2.68E-4           | 2.66E-4           | 2.63E-4           | 2.70E-4  | 2.59E-4    |
| N° 2       | 2.63E-4         | 2.71E-4         | 3.09E-4          | 3.98E-4          | 5.15E-4          | 7.33E-4          | 1.08E-3          | 1.48E-3           | 2.12E-3           | 3.03E-3           | 4.26E-3           | 5.38E-3           | 5.44E-3  | 6.36E-3    |
| N° 3       | 2.00E-4         | 2.11E-4         | 2.51E-4          | 3.25E-4          | 4.38E-4          | 6.66E-4          | 9.89E-4          | 1.35E-3           | 1.94E-3           | 2.81E-3           | 3.99E-3           | 5.06E-3           | 5.15E-3  | 6.27E-3    |
| N° 4       | 2.21E-5         | 3.50E-5         | 7.09E-5          | 1.49E-4          | 2.52E-4          | 4.73E-4          | 7.75E-4          | 1.13E-3           | 1.68E-3           | 2.54E-3           | 3.71E-3           | 4.82E-3           | 4.88E-3  | 6.06E-3    |
| N° 5       | 2.25E-4         | 2.46E-4         | 2.89E-4          | 3.78E-4          | 5.23E-4          | 8.38E-4          | 1.30E-3          | 1.83E-3           | 2.67E-3           | 3.79E-3           | 5.25E-3           | 6.49E-3           | 6.56E-3  | 6.96E-3    |
| N° 6       | 1.52E-4         | 1.78E-4         | 2.28E-4          | 3.34E-4          | 5.00E-4          | 8.78E-4          | 1.46E-3          | 2.11E-3           | 3.06E-3           | 4.35E-3           | 5.92E-3           | 7.20E-3           | 7.30E-3  | 7.10E-3    |
| N° 7       | 6.86E-5         | 9.00E-5         | 1.19E-4          | 1.92E-4          | 3.03E-4          | 5.01E-4          | 8.23E-4          | 1.19E-3           | 1.78E-3           | 2.63E-3           | 3.82E-3           | 4.90E-3           | 4.96E-3  | 6.08E-3    |
| N° 8       | 2.21E-4         | 2.34E-4         | 2.78E-4          | 3.36E-4          | 4.34E-4          | 6.39E-4          | 9.10E-4          | 1.23E-3           | 1.75E-3           | 2.54E-3           | 3.65E-3           | 4.72E-3           | 4.78E-3  | 6.14E-3    |
| N° 9       | 8.98E-5         | 9.79E-5         | 1.50E-4          | 2.63E-4          | 4.42E-4          | 8.69E-4          | 1.55E-3          | 2.28E-3           | 3.31E-3           | 4.68E-3           | 6.29E-3           | 7.59E-3           | 7.66E-3  | 7.09E-3    |
| N° 10      | 2.47E-4         | 2.62E-4         | 3.02E-4          | 3.71E-4          | 4.66E-4          | 6.71E-4          | 9.81E-4          | 1.32E-3           | 1.88E-3           | 2.72E-3           | 3.87E-3           | 4.90E-3           | 4.98E-3  | 6.11E-3    |
| N° 11      | 1.49E-4         | 1.67E-4         | 2.01E-4          | 2.76E-4          | 3.69E-4          | 5.65E-4          | 8.63E-4          | 1.21E-3           | 1.76E-3           | 2.62E-3           | 3.79E-3           | 4.87E-3           | 4.93E-3  | 6.09E-3    |
| N° 12      | 3.14E-4         | 3.34E-4         | 3.70E-4          | 4.51E-4          | 5.80E-4          | 8.38E-4          | 1.22E-3          | 1.64E-3           | 2.31E-3           | 3.29E-3           | 4.57E-3           | 5.70E-3           | 5.78E-3  | 6.61E-3    |
| N° 13      | 5.83E-5         | 6.55E-5         | 1.13E-4          | 1.86E-4          | 3.03E-4          | 5.58E-4          | 9.33E-4          | 1.36E-3           | 2.01E-3           | 2.99E-3           | 4.26E-3           | 5.38E-3           | 5.44E-3  | 6.30E-3    |
| N° 14      | 5.84E-5         | 7.85E-5         | 1.02E-4          | 1.78E-4          | 2.79E-4          | 4.76E-4          | 7.90E-4          | 1.13E-3           | 1.68E-3           | 2.52E-3           | 3.65E-3           | 4.72E-3           | 4.77E-3  | 6.00E-3    |
| N° 15      | 2.37E-4         | 2.48E-4         | 2.85E-4          | 3.61E-4          | 4.58E-4          | 6.18E-4          | 8.34E-4          | 1.08E-3           | 1.45E-3           | 2.01E-3           | 2.85E-3           | 3.66E-3           | 3.71E-3  | 5.25E-3    |
| N° 16      | 1.40E-4         | 1.59E-4         | 1.99E-4          | 2.80E-4          | 4.07E-4          | 6.49E-4          | 1.01E-3          | 1.42E-3           | 2.07E-3           | 3.01E-3           | 4.28E-3           | 5.40E-3           | 5.45E-3  | 6.34E-3    |
| N° 17      | 2.20E-4         | 2.33E-4         | 2.61E-4          | 3.39E-4          | 4.44E-4          | 6.43E-4          | 9.64E-4          | 1.28E-3           | 1.84E-3           | 2.67E-3           | 3.82E-3           | 4.92E-3           | 4.98E-3  | 6.27E-3    |
| N° 18      | 5.46E-5         | 6.05E-5         | 8.85E-5          | 1.52E-4          | 2.36E-4          | 3.76E-4          | 5.78E-4          | 7.70E-4           | 1.10E-3           | 1.60E-3           | 2.36E-3           | 3.13E-3           | 3.18E-3  | 5.01E-3    |
| N° 19      | 1.09E-4         | 1.29E-4         | 1.63E-4          | 2.39E-4          | 3.37E-4          | 5.41E-4          | 8.33E-4          | 1.18E-3           | 1.73E-3           | 2.53E-3           | 3.62E-3           | 4.67E-3           | 4.73E-3  | 6.06E-3    |
| N° 20      | 2.26E-4         | 2.48E-4         | 2.78E-4          | 3.43E-4          | 4.49E-4          | 6.53E-4          | 9.62E-4          | 1.33E-3           | 1.88E-3           | 2.74E-3           | 3.89E-3           | 4.98E-3           | 5.05E-3  | 6.20E-3    |
| N° 21      | 2.36E-4         | 2.61E-4         | 2.96E-4          | 3.99E-4          | 5.34E-4          | 8.34E-4          | 1.30E-3          | 1.80E-3           | 2.56E-3           | 3.62E-3           | 4.99E-3           | 6.18E-3           | 6.23E-3  | 6.84E-3    |
| N° 22      | 1.70E-4         | 1.85E-4         | 2.23E-4          | 2.96E-4          | 3.91E-4          | 5.62E-4          | 8.46E-4          | 1.14E-3           | 1.64E-3           | 2.40E-3           | 3.44E-3           | 4.44E-3           | 4.51E-3  | 6.04E-3    |
| N° 23      | 4.61E-5         | 6.12E-5         | 1.04E-4          | 1.64E-4          | 2.83E-4          | 5.13E-4          | 8.47E-4          | 1.23E-3           | 1.85E-3           | 2.76E-3           | 3.96E-3           | 5.09E-3           | 5.14E-3  | 6.27E-3    |
| N° 24      | 1.10E-4         | 1.28E-4         | 1.64E-4          | 2.54E-4          | 3.66E-4          | 5.93E-4          | 9.57E-4          | 1.36E-3           | 1.99E-3           | 2.93E-3           | 4.14E-3           | 5.28E-3           | 5.37E-3  | 6.31E-3    |
| N° 25      | 1.09E-4         | 1.28E-4         | 1.62E-4          | 2.38E-4          | 3.40E-4          | 5.55E-4          | 8.75E-4          | 1.24E-3           | 1.82E-3           | 2.72E-3           | 3.88E-3           | 5.00E-3           | 5.07E-3  | 6.18E-3    |
| N° 26      | 2.40E-4         | 2.54E-4         | 2.96E-4          | 3.62E-4          | 4.55E-4          | 6.41E-4          | 9.14E-4          | 1.22E-3           | 1.72E-3           | 2.49E-3           | 3.56E-3           | 4.59E-3           | 4.68E-3  | 6.10E-3    |
| N° 27      | 1.49E-4         | 1.65E-4         | 2.04E-4          | 2.68E-4          | 3.77E-4          | 5.77E-4          | 8.54E-4          | 1.17E-3           | 1.71E-3           | 2.51E-3           | 3.62E-3           | 4.69E-3           | 4.76E-3  | 6.10E-3    |
| N° 28      | 1.59E-4         | 1.71E-4         | 2.14E-4          | 2.91E-4          | 3.99E-4          | 6.10E-4          | 9.27E-4          | 1.29E-3           | 1.86E-3           | 2.74E-3           | 3.88E-3           | 4.98E-3           | 5.05E-3  | 6.27E-3    |
| N° 29      | 1.33E-4         | 1.53E-4         | 1.99E-4          | 3.05E-4          | 4.73E-4          | 8.32E-4          | 1.43E-3          | 2.06E-3           | 2.97E-3           | 4.24E-3           | 5.71E-3           | 7.01E-3           | 7.09E-3  | 7.04E-3    |
| N° 30      | 5.95E-5         | 7.36E-5         | 1.07E-4          | 1.89E-4          | 3.05E-4          | 5.26E-4          | 8.86E-4          | 1.30E-3           | 1.92E-3           | 2.86E-3           | 4.08E-3           | 5.22E-3           | 5.19E-3  | 6.26E-3    |
| N° 31      | 1.36E-4         | 1.58E-4         | 1.94E-4          | 2.81E-4          | 4.26E-4          | 7.17E-4          | 1.17E-3          | 1.69E-3           | 2.49E-3           | 3.61E-3           | 4.98E-3           | 6.20E-3           | 6.29E-3  | 6.72E-3    |

## 8. VRload1

Ta=25°C; Vin=15V; 0mA<IL<5mA; VO=10V



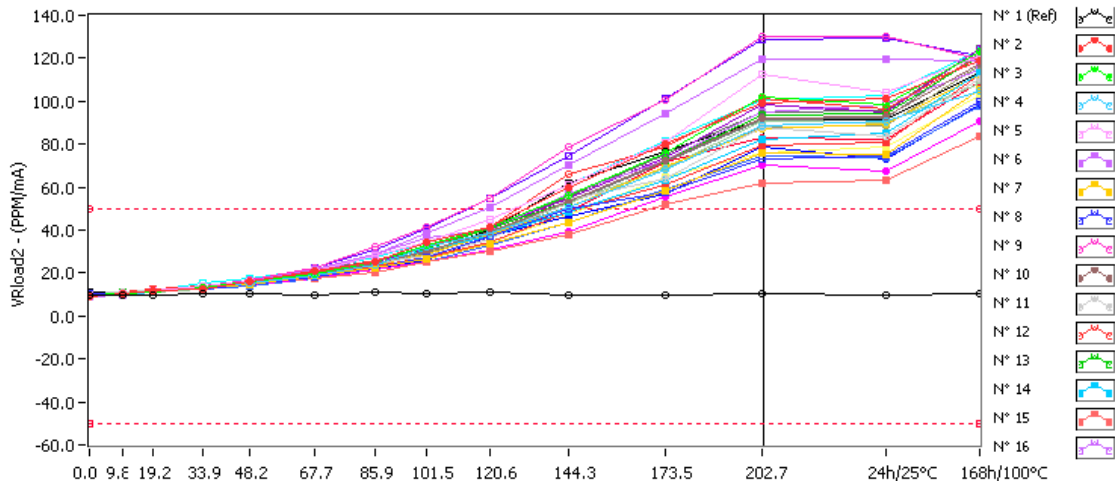
**VRload1 . (PPM/mA)**

Min = -50.0 Max = 50.0

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 8.058           | 8.018           | 8.104            | 8.668            | 7.781            | 8.036            | 9.182            | 8.514             | 8.972             | 8.386             | 8.124             | 8.846             | 8.358    | 8.648      |
| N° 2       | 7.482           | 8.517           | 9.918            | 11.788           | 14.435           | 18.466           | 22.561           | 29.877            | 36.633            | 52.677            | 70.579            | 89.189            | 92.042   | 112.731    |
| N° 3       | 7.850           | 8.834           | 10.078           | 11.492           | 14.248           | 17.392           | 22.044           | 28.281            | 36.556            | 49.628            | 68.490            | 90.585            | 89.677   | 117.353    |
| N° 4       | 7.667           | 8.418           | 9.632            | 11.632           | 13.563           | 16.521           | 20.539           | 27.500            | 33.787            | 45.232            | 60.846            | 78.747            | 81.351   | 98.906     |
| N° 5       | 7.764           | 8.917           | 9.748            | 12.291           | 14.502           | 18.409           | 24.284           | 29.378            | 39.274            | 53.252            | 72.456            | 98.629            | 95.402   | 114.803    |
| N° 6       | 7.234           | 8.238           | 9.350            | 11.957           | 14.357           | 19.210           | 26.339           | 33.441            | 45.090            | 62.272            | 84.018            | 107.554           | 110.186  | 112.771    |
| N° 7       | 8.190           | 9.251           | 9.965            | 12.434           | 13.183           | 16.499           | 19.336           | 23.532            | 29.038            | 38.276            | 50.353            | 67.115            | 66.861   | 100.436    |
| N° 8       | 8.157           | 8.860           | 10.318           | 11.458           | 13.209           | 15.888           | 18.907           | 23.205            | 31.632            | 42.391            | 51.103            | 65.194            | 66.268   | 94.048     |
| N° 9       | 7.249           | 8.674           | 9.595            | 12.612           | 15.030           | 19.033           | 28.481           | 35.573            | 48.338            | 69.692            | 90.430            | 118.505           | 120.280  | 113.951    |
| N° 10      | 8.297           | 9.209           | 10.464           | 12.630           | 14.336           | 17.411           | 21.728           | 27.120            | 34.938            | 46.923            | 63.909            | 82.896            | 84.118   | 111.555    |
| N° 11      | 8.247           | 9.526           | 10.176           | 12.245           | 13.656           | 16.801           | 20.784           | 24.940            | 31.516            | 45.347            | 55.928            | 77.240            | 74.407   | 104.055    |
| N° 12      | 8.365           | 9.862           | 10.804           | 13.085           | 14.460           | 17.512           | 22.923           | 27.597            | 36.248            | 54.885            | 68.410            | 90.277            | 86.457   | 114.414    |
| N° 13      | 8.145           | 8.970           | 10.486           | 12.715           | 14.202           | 18.391           | 21.820           | 27.784            | 35.324            | 45.794            | 63.732            | 83.100            | 84.733   | 114.608    |
| N° 14      | 8.201           | 9.325           | 10.174           | 11.842           | 13.619           | 17.714           | 21.303           | 27.236            | 32.561            | 42.312            | 55.137            | 72.371            | 74.841   | 107.591    |
| N° 15      | 8.174           | 9.236           | 10.166           | 11.489           | 13.942           | 15.306           | 18.028           | 21.209            | 26.973            | 32.727            | 45.252            | 54.783            | 55.735   | 78.932     |
| N° 16      | 8.151           | 9.239           | 10.557           | 12.171           | 13.452           | 17.389           | 24.690           | 32.124            | 35.432            | 49.639            | 63.978            | 87.794            | 88.355   | 109.639    |
| N° 17      | 8.105           | 9.223           | 10.523           | 12.141           | 13.379           | 16.552           | 20.882           | 25.906            | 32.927            | 44.820            | 60.792            | 78.786            | 80.886   | 106.584    |
| N° 18      | 7.904           | 8.977           | 10.111           | 11.382           | 12.954           | 15.180           | 17.947           | 21.959            | 26.942            | 35.155            | 49.145            | 62.505            | 60.807   | 85.540     |
| N° 19      | 8.474           | 9.697           | 11.012           | 13.424           | 14.269           | 17.216           | 22.223           | 27.137            | 35.664            | 47.548            | 66.519            | 87.528            | 85.508   | 117.555    |
| N° 20      | 7.988           | 8.902           | 10.027           | 11.725           | 12.800           | 16.259           | 20.223           | 25.756            | 33.750            | 45.968            | 61.543            | 80.296            | 80.816   | 102.861    |
| N° 21      | 8.298           | 9.580           | 10.486           | 13.973           | 15.425           | 19.113           | 24.645           | 29.845            | 40.351            | 53.407            | 73.705            | 93.732            | 93.126   | 117.857    |
| N° 22      | 8.441           | 9.171           | 10.370           | 12.011           | 13.982           | 15.962           | 19.985           | 24.105            | 30.213            | 42.329            | 54.365            | 70.368            | 72.398   | 105.878    |
| N° 23      | 8.207           | 9.746           | 10.622           | 12.525           | 14.514           | 17.896           | 22.638           | 27.497            | 35.699            | 48.729            | 65.293            | 84.529            | 86.929   | 117.960    |
| N° 24      | 7.833           | 8.656           | 9.559            | 11.241           | 13.272           | 15.624           | 17.974           | 22.242            | 28.181            | 37.594            | 50.844            | 64.700            | 66.426   | 92.019     |
| N° 25      | 8.429           | 9.233           | 10.636           | 12.311           | 14.246           | 16.321           | 21.075           | 25.528            | 31.916            | 42.166            | 61.316            | 73.597            | 74.100   | 102.939    |
| N° 26      | 8.401           | 9.457           | 10.588           | 12.357           | 14.108           | 15.097           | 19.452           | 22.738            | 31.307            | 39.317            | 49.797            | 68.336            | 64.931   | 92.582     |
| N° 27      | 7.941           | 9.075           | 9.601            | 11.341           | 13.075           | 16.158           | 20.045           | 26.263            | 34.662            | 43.758            | 60.371            | 78.362            | 80.614   | 111.319    |
| N° 28      | 7.898           | 8.737           | 10.216           | 12.025           | 13.675           | 17.111           | 21.389           | 25.461            | 33.271            | 45.036            | 62.581            | 81.919            | 83.960   | 116.098    |
| N° 29      | 7.179           | 8.332           | 9.805            | 12.516           | 14.028           | 19.341           | 27.043           | 36.436            | 48.746            | 66.885            | 91.826            | 117.816           | 118.814  | 115.128    |
| N° 30      | 8.249           | 9.016           | 10.076           | 12.532           | 13.574           | 16.188           | 20.377           | 23.559            | 28.704            | 40.029            | 56.198            | 70.683            | 72.953   | 97.453     |
| N° 31      | 8.825           | 9.609           | 10.462           | 12.701           | 14.482           | 17.440           | 21.610           | 25.574            | 34.805            | 51.677            | 66.555            | 80.726            | 82.652   | 106.728    |

## 9. VRload2

Ta=25°C; Vin=15V; 0mA<IL<5mA; VO=7.5V



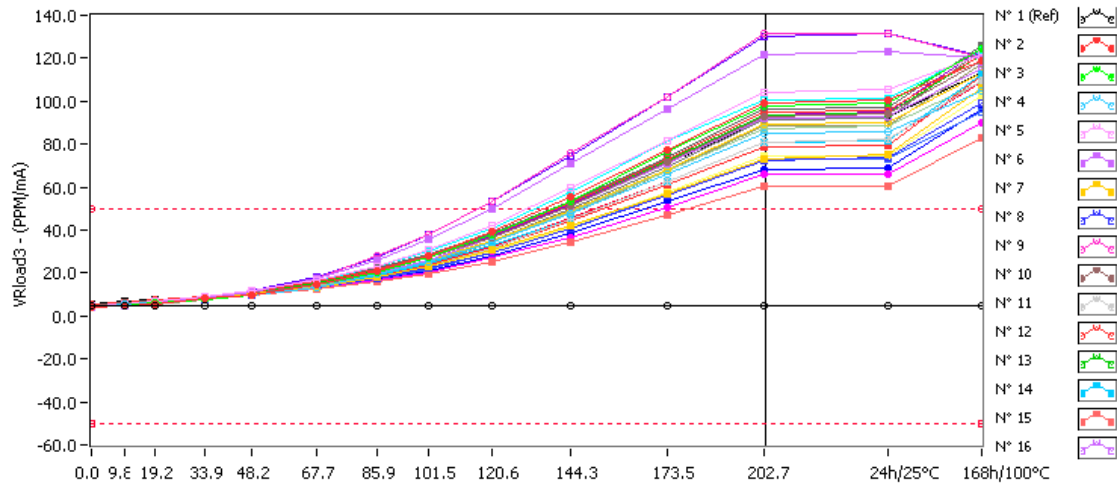
**VRload2 . (PPM/mA)**

Min = -50.0 Max = 50.0

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 9.649           | 9.862           | 9.842            | 10.620           | 10.101           | 9.858            | 11.135           | 10.333            | 10.907            | 9.976             | 10.023            | 10.606            | 10.060   | 10.644     |
| N° 2       | 8.930           | 10.204          | 11.620           | 12.535           | 15.990           | 20.640           | 25.539           | 34.288            | 41.588            | 59.990            | 80.198            | 99.021            | 101.239  | 118.671    |
| N° 3       | 9.374           | 10.350          | 11.081           | 13.471           | 15.735           | 19.673           | 25.249           | 32.707            | 41.346            | 56.357            | 75.762            | 101.705           | 98.567   | 123.370    |
| N° 4       | 9.411           | 9.998           | 11.200           | 12.974           | 15.297           | 19.026           | 23.458           | 31.927            | 38.272            | 50.258            | 68.240            | 88.270            | 90.384   | 104.645    |
| N° 5       | 9.454           | 10.305          | 11.480           | 14.118           | 15.837           | 20.860           | 27.733           | 34.267            | 44.599            | 60.845            | 80.598            | 112.184           | 104.018  | 121.035    |
| N° 6       | 9.013           | 9.942           | 10.857           | 13.373           | 16.273           | 21.445           | 28.987           | 38.938            | 50.625            | 70.565            | 94.362            | 119.907           | 119.928  | 118.775    |
| N° 7       | 9.896           | 10.426          | 11.405           | 13.423           | 14.860           | 18.522           | 22.682           | 26.802            | 33.487            | 43.788            | 58.530            | 75.711            | 74.987   | 105.825    |
| N° 8       | 10.087          | 10.663          | 11.621           | 12.694           | 14.924           | 17.967           | 22.128           | 27.415            | 37.469            | 49.992            | 57.623            | 73.306            | 74.424   | 99.533     |
| N° 9       | 8.857           | 10.215          | 11.143           | 14.048           | 16.948           | 22.078           | 32.198           | 41.152            | 54.777            | 79.011            | 100.254           | 129.874           | 129.931  | 119.659    |
| N° 10      | 9.972           | 10.771          | 11.574           | 13.737           | 15.646           | 19.075           | 24.744           | 29.849            | 38.972            | 53.365            | 72.073            | 91.954            | 92.780   | 117.730    |
| N° 11      | 10.274          | 11.109          | 12.006           | 14.083           | 15.456           | 18.793           | 24.599           | 28.335            | 35.638            | 54.271            | 64.160            | 87.901            | 83.558   | 110.125    |
| N° 12      | 10.313          | 11.306          | 12.514           | 13.943           | 15.931           | 20.065           | 25.743           | 32.494            | 41.588            | 66.044            | 79.013            | 101.321           | 96.305   | 120.655    |
| N° 13      | 9.917           | 10.834          | 12.147           | 13.713           | 16.195           | 19.934           | 25.780           | 31.215            | 40.495            | 53.671            | 72.310            | 93.195            | 94.147   | 120.644    |
| N° 14      | 10.021          | 10.515          | 11.649           | 13.619           | 14.937           | 18.660           | 24.073           | 30.692            | 37.076            | 48.140            | 63.199            | 82.089            | 84.929   | 113.566    |
| N° 15      | 10.426          | 11.016          | 11.561           | 12.901           | 15.084           | 17.346           | 20.433           | 24.947            | 30.449            | 37.642            | 52.160            | 62.075            | 62.926   | 83.740     |
| N° 16      | 9.899           | 10.734          | 11.941           | 13.530           | 15.570           | 19.864           | 28.665           | 36.419            | 40.004            | 57.249            | 72.536            | 95.087            | 98.420   | 114.921    |
| N° 17      | 9.942           | 11.018          | 11.996           | 13.533           | 16.028           | 19.376           | 23.754           | 29.076            | 37.720            | 50.838            | 69.620            | 87.175            | 89.143   | 112.207    |
| N° 18      | 9.763           | 10.672          | 11.515           | 12.799           | 14.420           | 17.610           | 21.626           | 25.361            | 31.106            | 39.467            | 55.641            | 70.013            | 67.596   | 90.817     |
| N° 19      | 10.405          | 10.940          | 12.135           | 13.953           | 15.871           | 19.872           | 25.501           | 31.282            | 40.507            | 54.693            | 73.944            | 98.779            | 94.978   | 124.261    |
| N° 20      | 9.821           | 10.631          | 11.237           | 12.742           | 15.092           | 18.880           | 23.818           | 29.857            | 38.076            | 52.341            | 68.972            | 90.962            | 90.067   | 108.289    |
| N° 21      | 9.992           | 11.433          | 12.173           | 15.451           | 17.284           | 21.581           | 27.532           | 34.631            | 44.611            | 60.993            | 81.438            | 100.620           | 102.774  | 123.887    |
| N° 22      | 10.262          | 10.676          | 12.337           | 13.409           | 14.824           | 18.620           | 23.294           | 27.130            | 34.696            | 48.503            | 61.413            | 79.250            | 80.770   | 112.457    |
| N° 23      | 9.970           | 11.014          | 12.135           | 14.036           | 16.113           | 20.703           | 25.853           | 31.401            | 40.963            | 55.194            | 74.890            | 95.259            | 95.822   | 124.332    |
| N° 24      | 9.704           | 10.449          | 11.100           | 12.812           | 14.264           | 17.385           | 21.435           | 25.549            | 33.118            | 43.324            | 58.740            | 74.462            | 74.128   | 97.727     |
| N° 25      | 10.434          | 10.846          | 12.095           | 13.272           | 15.455           | 18.785           | 24.055           | 29.022            | 37.538            | 48.570            | 71.633            | 83.256            | 81.929   | 108.940    |
| N° 26      | 10.020          | 10.562          | 12.149           | 13.886           | 15.607           | 18.079           | 22.286           | 25.740            | 37.061            | 46.021            | 56.554            | 78.781            | 73.378   | 98.253     |
| N° 27      | 9.459           | 10.049          | 11.401           | 13.031           | 15.219           | 18.439           | 23.144           | 30.224            | 39.441            | 50.608            | 69.659            | 88.155            | 88.724   | 117.047    |
| N° 28      | 9.361           | 10.468          | 11.772           | 13.029           | 15.395           | 18.622           | 23.883           | 29.690            | 38.276            | 52.450            | 71.959            | 91.526            | 91.971   | 122.524    |
| N° 29      | 8.929           | 9.953           | 11.042           | 13.541           | 16.263           | 22.193           | 30.687           | 41.018            | 54.946            | 74.613            | 101.011           | 128.921           | 129.097  | 120.725    |
| N° 30      | 9.969           | 10.740          | 12.173           | 14.057           | 15.224           | 17.969           | 23.448           | 27.451            | 34.015            | 47.256            | 64.394            | 76.221            | 78.971   | 102.955    |
| N° 31      | 11.144          | 11.452          | 12.812           | 14.236           | 16.232           | 19.509           | 25.676           | 29.705            | 39.855            | 61.983            | 76.769            | 91.717            | 91.690   | 113.481    |

## 10. VRload3

Ta=25°C; Vin=15V; 0mA<IL<5mA; VO=5.0V



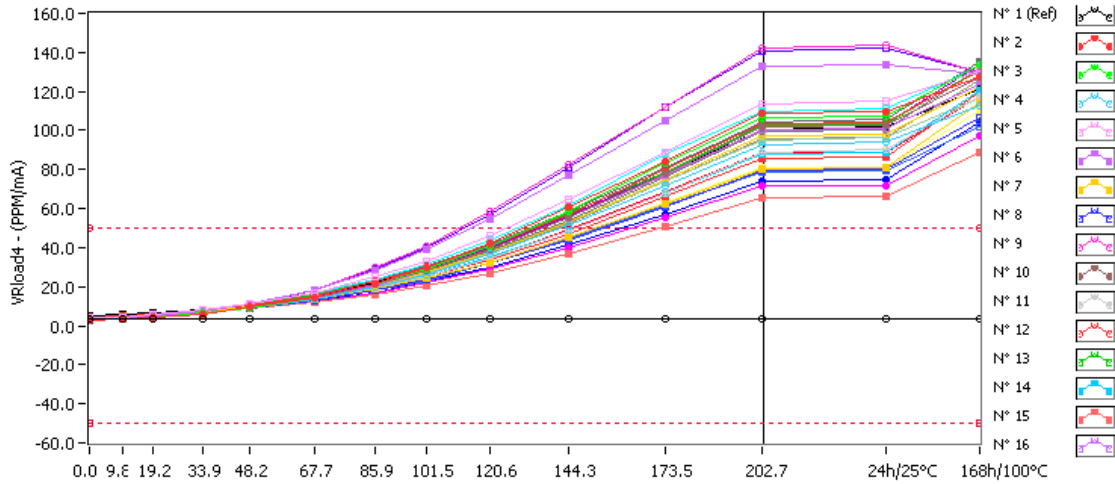
**VRload3 . (PPM/mA)**

Min = -50.0 Max = 50.0

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 4.817           | 4.704           | 4.845            | 4.680            | 4.721            | 4.525            | 4.517            | 4.558             | 4.630             | 4.603             | 4.760             | 4.759             | 4.623    | 4.689      |
| N° 2       | 4.153           | 4.926           | 5.842            | 8.525            | 9.735            | 14.616           | 21.317           | 27.788            | 39.284            | 55.331            | 77.313            | 99.396            | 100.640  | 119.040    |
| N° 3       | 4.030           | 4.852           | 5.984            | 7.865            | 9.922            | 14.445           | 20.297           | 27.116            | 37.918            | 53.515            | 76.665            | 97.936            | 98.889   | 124.444    |
| N° 4       | 4.357           | 5.230           | 6.137            | 7.373            | 9.639            | 13.556           | 19.403           | 25.169            | 34.391            | 47.675            | 65.793            | 84.933            | 85.841   | 104.749    |
| N° 5       | 4.765           | 5.694           | 6.757            | 9.055            | 11.879           | 16.559           | 23.073           | 31.070            | 42.140            | 59.750            | 81.578            | 104.392           | 105.762  | 121.901    |
| N° 6       | 4.313           | 5.027           | 6.150            | 8.315            | 11.192           | 17.514           | 25.805           | 35.683            | 50.179            | 70.755            | 96.277            | 121.443           | 123.078  | 119.961    |
| N° 7       | 4.944           | 5.528           | 6.496            | 8.058            | 10.075           | 13.575           | 17.975           | 22.837            | 30.737            | 41.789            | 57.143            | 73.438            | 75.019   | 106.510    |
| N° 8       | 4.812           | 5.497           | 6.558            | 7.900            | 9.582            | 13.137           | 17.554           | 22.446            | 29.583            | 40.454            | 55.874            | 72.303            | 73.664   | 99.014     |
| N° 9       | 4.030           | 4.853           | 5.749            | 8.169            | 11.288           | 17.450           | 27.880           | 37.596            | 53.340            | 75.591            | 102.265           | 131.216           | 131.597  | 120.333    |
| N° 10      | 4.977           | 5.867           | 6.729            | 8.590            | 10.760           | 14.794           | 20.458           | 27.102            | 36.632            | 51.026            | 71.813            | 92.941            | 94.300   | 118.576    |
| N° 11      | 4.860           | 5.300           | 6.438            | 8.238            | 9.647            | 13.211           | 18.377           | 23.338            | 31.583            | 44.831            | 62.262            | 81.031            | 82.463   | 109.726    |
| N° 12      | 5.448           | 6.126           | 7.330            | 8.886            | 11.120           | 15.826           | 21.755           | 27.883            | 37.930            | 52.579            | 72.890            | 94.898            | 95.767   | 121.373    |
| N° 13      | 4.860           | 5.815           | 6.804            | 9.043            | 10.965           | 15.596           | 21.657           | 27.994            | 38.078            | 52.597            | 72.272            | 93.471            | 94.368   | 121.871    |
| N° 14      | 4.659           | 5.499           | 6.575            | 8.278            | 10.523           | 13.574           | 19.053           | 24.443            | 32.878            | 44.947            | 62.306            | 81.057            | 81.560   | 112.651    |
| N° 15      | 5.059           | 5.907           | 6.739            | 7.841            | 9.707            | 12.303           | 15.821           | 19.767            | 25.273            | 34.277            | 46.908            | 60.172            | 60.472   | 82.865     |
| N° 16      | 4.733           | 5.315           | 6.431            | 7.743            | 10.103           | 14.454           | 20.415           | 26.025            | 36.463            | 51.319            | 70.677            | 92.147            | 92.596   | 115.608    |
| N° 17      | 5.126           | 5.909           | 6.727            | 8.622            | 10.886           | 14.743           | 20.273           | 25.963            | 35.101            | 49.433            | 68.258            | 89.117            | 90.079   | 113.298    |
| N° 18      | 4.801           | 5.371           | 6.359            | 7.721            | 9.550            | 12.348           | 16.550           | 20.584            | 27.250            | 36.619            | 50.862            | 65.999            | 66.332   | 90.174     |
| N° 19      | 5.018           | 5.844           | 6.435            | 8.740            | 10.522           | 14.784           | 20.974           | 27.478            | 37.054            | 52.073            | 72.590            | 93.442            | 94.691   | 124.611    |
| N° 20      | 4.453           | 5.284           | 6.367            | 7.454            | 9.903            | 13.898           | 18.853           | 25.155            | 34.566            | 48.423            | 67.245            | 87.450            | 88.266   | 108.728    |
| N° 21      | 4.845           | 5.920           | 6.636            | 8.669            | 11.456           | 16.145           | 22.749           | 30.005            | 40.381            | 57.261            | 81.478            | 100.819           | 101.539  | 124.056    |
| N° 22      | 4.617           | 5.384           | 6.369            | 8.027            | 10.130           | 13.008           | 18.420           | 23.759            | 31.634            | 44.011            | 60.907            | 78.956            | 79.252   | 111.616    |
| N° 23      | 5.095           | 5.826           | 7.011            | 9.181            | 11.262           | 15.563           | 22.303           | 28.896            | 38.460            | 53.655            | 73.715            | 96.021            | 97.271   | 126.138    |
| N° 24      | 4.724           | 5.522           | 6.358            | 7.896            | 9.781            | 12.794           | 17.287           | 22.038            | 29.561            | 40.771            | 56.635            | 72.834            | 73.446   | 95.080     |
| N° 25      | 4.870           | 5.286           | 6.480            | 7.879            | 9.839            | 13.690           | 18.593           | 24.133            | 32.201            | 45.417            | 62.569            | 80.613            | 81.953   | 109.085    |
| N° 26      | 4.924           | 5.614           | 6.359            | 8.201            | 9.688            | 12.789           | 16.800           | 21.255            | 28.320            | 38.526            | 53.106            | 68.493            | 68.878   | 96.441     |
| N° 27      | 4.005           | 4.767           | 5.746            | 7.488            | 9.758            | 13.523           | 19.107           | 24.422            | 34.382            | 47.905            | 67.438            | 88.248            | 88.861   | 117.406    |
| N° 28      | 4.534           | 5.394           | 6.412            | 8.265            | 10.239           | 13.789           | 19.859           | 26.133            | 35.128            | 49.631            | 69.603            | 91.539            | 91.995   | 123.674    |
| N° 29      | 3.969           | 4.884           | 5.936            | 8.322            | 11.488           | 17.945           | 27.380           | 37.760            | 53.471            | 74.508            | 102.250           | 129.978           | 131.473  | 121.053    |
| N° 30      | 4.806           | 5.392           | 6.383            | 8.009            | 10.155           | 13.069           | 17.673           | 22.602            | 30.261            | 41.198            | 57.784            | 74.333            | 74.378   | 102.825    |
| N° 31      | 5.735           | 6.612           | 7.510            | 9.140            | 11.292           | 15.030           | 20.920           | 27.404            | 37.355            | 51.291            | 71.316            | 91.132            | 92.540   | 112.975    |

# 11. VRload4

Ta=25°C; Vin=15V; 0mA<IL<5mA; VO=2.5V



**VRload4 . (PPM/mA)**

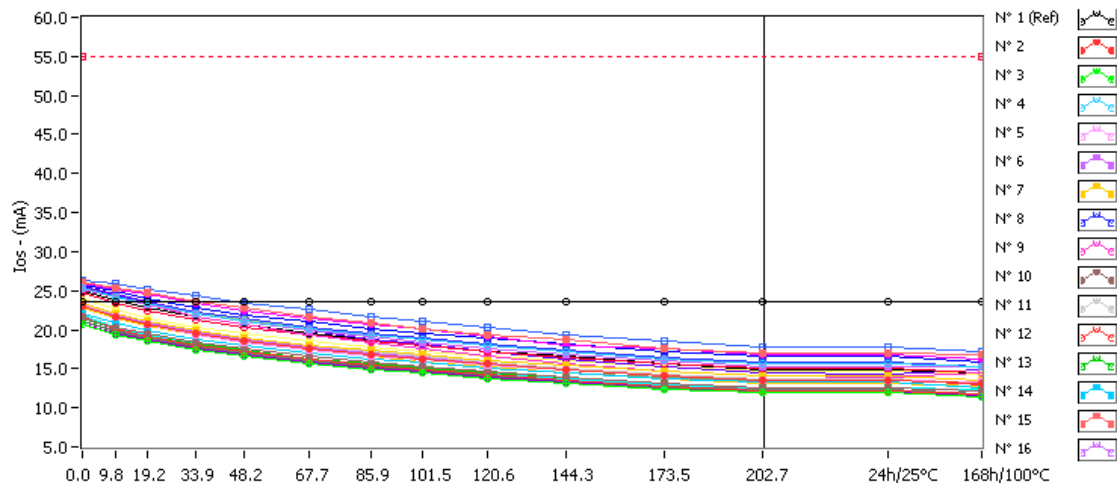
Min = -50.0 Max = 50.0

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 3.351           | 3.403           | 3.558            | 3.586            | 3.611            | 3.355            | 3.375            | 3.416             | 3.422             | 3.315             | 3.564             | 3.542             | 3.470    | 3.460      |
| N° 2       | 2.683           | 3.309           | 4.570            | 5.958            | 9.359            | 14.386           | 21.614           | 29.845            | 41.942            | 60.574            | 83.834            | 108.649           | 109.736  | 127.785    |
| N° 3       | 2.539           | 3.334           | 4.570            | 6.389            | 8.919            | 14.441           | 21.378           | 28.728            | 40.602            | 58.662            | 83.188            | 106.343           | 107.427  | 133.460    |
| N° 4       | 3.263           | 3.756           | 4.663            | 6.869            | 9.244            | 13.668           | 19.819           | 26.306            | 36.832            | 51.627            | 71.900            | 92.589            | 93.787   | 112.541    |
| N° 5       | 3.980           | 4.642           | 5.899            | 8.077            | 11.174           | 17.026           | 25.097           | 33.239            | 46.028            | 64.476            | 88.547            | 113.747           | 114.709  | 130.605    |
| N° 6       | 3.459           | 4.045           | 5.261            | 7.464            | 11.219           | 18.201           | 28.046           | 38.815            | 54.736            | 76.957            | 105.252           | 133.012           | 133.748  | 128.860    |
| N° 7       | 3.760           | 4.337           | 5.261            | 7.288            | 9.485            | 13.379           | 18.734           | 24.456            | 32.484            | 45.094            | 62.225            | 80.478            | 81.212   | 114.289    |
| N° 8       | 3.811           | 4.287           | 5.287            | 7.034            | 9.215            | 12.626           | 18.028           | 23.600            | 31.874            | 44.061            | 61.127            | 79.515            | 80.129   | 106.520    |
| N° 9       | 2.984           | 3.669           | 4.648            | 7.293            | 10.929           | 18.343           | 29.745           | 40.955            | 58.415            | 82.173            | 111.961           | 142.347           | 143.740  | 129.469    |
| N° 10      | 3.854           | 4.310           | 5.406            | 7.366            | 9.817            | 14.538           | 21.457           | 28.237            | 39.486            | 55.673            | 77.793            | 101.605           | 102.522  | 127.097    |
| N° 11      | 3.671           | 4.124           | 5.160            | 7.012            | 9.126            | 13.430           | 18.875           | 25.092            | 34.653            | 48.742            | 67.472            | 88.844            | 89.953   | 117.713    |
| N° 12      | 4.339           | 4.817           | 6.104            | 8.100            | 10.729           | 15.504           | 22.724           | 29.604            | 40.759            | 57.081            | 80.153            | 103.265           | 104.561  | 130.298    |
| N° 13      | 3.824           | 4.374           | 5.503            | 7.860            | 10.436           | 15.964           | 22.557           | 29.958            | 40.898            | 57.404            | 78.915            | 102.588           | 103.381  | 131.094    |
| N° 14      | 3.652           | 4.089           | 5.187            | 7.270            | 9.401            | 14.172           | 19.819           | 25.542            | 34.904            | 48.469            | 67.884            | 87.904            | 88.859   | 120.712    |
| N° 15      | 4.321           | 4.726           | 5.647            | 7.196            | 8.916            | 12.103           | 16.269           | 20.329            | 27.027            | 36.721            | 50.737            | 65.596            | 66.049   | 88.911     |
| N° 16      | 3.518           | 4.148           | 5.035            | 6.986            | 9.734            | 14.152           | 20.900           | 27.987            | 39.080            | 55.312            | 77.328            | 100.222           | 101.034  | 123.618    |
| N° 17      | 4.154           | 4.714           | 5.911            | 7.588            | 10.153           | 14.602           | 20.696           | 27.514            | 37.813            | 53.143            | 74.784            | 97.257            | 98.399   | 122.404    |
| N° 18      | 3.978           | 4.363           | 5.272            | 6.767            | 8.815            | 12.205           | 16.883           | 21.812            | 29.263            | 39.850            | 55.321            | 71.565            | 71.875   | 96.892     |
| N° 19      | 3.737           | 4.460           | 5.254            | 7.202            | 9.982            | 14.853           | 21.725           | 28.631            | 39.934            | 56.277            | 78.781            | 102.097           | 103.486  | 133.438    |
| N° 20      | 3.492           | 4.116           | 4.942            | 6.610            | 9.271            | 13.838           | 20.117           | 26.739            | 37.576            | 52.826            | 73.946            | 95.251            | 96.147   | 116.816    |
| N° 21      | 3.932           | 4.663           | 5.583            | 8.094            | 10.930           | 16.433           | 23.852           | 31.424            | 43.813            | 61.630            | 88.220            | 109.812           | 110.826  | 132.800    |
| N° 22      | 3.285           | 3.740           | 4.764            | 6.903            | 9.252            | 13.094           | 19.225           | 25.156            | 33.525            | 47.219            | 65.912            | 86.007            | 86.616   | 119.719    |
| N° 23      | 4.088           | 4.623           | 5.893            | 7.790            | 11.036           | 15.931           | 23.151           | 30.354            | 41.533            | 58.148            | 80.947            | 104.485           | 105.615  | 135.359    |
| N° 24      | 4.008           | 4.439           | 5.487            | 7.181            | 9.033            | 13.018           | 17.966           | 23.238            | 31.913            | 44.604            | 61.598            | 78.822            | 79.775   | 101.869    |
| N° 25      | 3.478           | 4.061           | 5.267            | 7.007            | 9.171            | 13.559           | 19.764           | 25.080            | 34.723            | 48.939            | 68.672            | 88.538            | 89.051   | 117.309    |
| N° 26      | 3.639           | 4.131           | 4.991            | 6.973            | 8.977            | 12.541           | 17.065           | 22.610            | 29.953            | 41.323            | 57.309            | 74.292            | 74.631   | 104.053    |
| N° 27      | 2.788           | 3.382           | 4.152            | 6.431            | 8.742            | 13.222           | 19.649           | 26.441            | 36.735            | 52.059            | 73.710            | 95.558            | 96.406   | 126.252    |
| N° 28      | 3.362           | 4.022           | 4.910            | 6.862            | 9.248            | 14.065           | 20.441           | 27.476            | 38.169            | 53.998            | 76.602            | 99.868            | 100.370  | 132.473    |
| N° 29      | 2.933           | 3.547           | 4.611            | 7.455            | 10.677           | 18.001           | 29.097           | 40.314            | 57.164            | 81.105            | 111.906           | 140.574           | 141.801  | 129.938    |
| N° 30      | 3.710           | 4.252           | 5.409            | 7.307            | 9.373            | 13.248           | 18.341           | 23.975            | 32.273            | 44.680            | 63.003            | 80.828            | 80.466   | 110.105    |
| N° 31      | 5.151           | 5.650           | 6.621            | 8.456            | 10.789           | 15.304           | 22.465           | 29.261            | 40.000            | 56.265            | 77.609            | 100.043           | 101.518  | 121.559    |



## 12. Ios

Ta=25°C; Vin=15V; IL=0mA; VO=10V



Ios . (mA)

Max = 55.0

|            | 0.0<br>krad(Si) | 9.8<br>krad(Si) | 19.2<br>krad(Si) | 33.9<br>krad(Si) | 48.2<br>krad(Si) | 67.7<br>krad(Si) | 85.9<br>krad(Si) | 101.5<br>krad(Si) | 120.6<br>krad(Si) | 144.3<br>krad(Si) | 173.5<br>krad(Si) | 202.7<br>krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 23.671          | 23.654          | 23.646           | 23.637           | 23.630           | 23.636           | 23.629           | 23.652            | 23.616            | 23.650            | 23.605            | 23.623            | 23.631   | 23.648     |
| N° 2       | 22.940          | 21.622          | 20.684           | 19.509           | 18.614           | 17.609           | 16.821           | 16.243            | 15.564            | 14.865            | 14.086            | 13.499            | 13.503   | 13.041     |
| N° 3       | 20.682          | 19.416          | 18.531           | 17.450           | 16.624           | 15.676           | 14.923           | 14.395            | 13.783            | 13.133            | 12.325            | 11.900            | 11.908   | 11.474     |
| N° 4       | 25.277          | 24.225          | 23.304           | 22.105           | 21.140           | 20.137           | 19.288           | 18.665            | 17.945            | 17.179            | 16.307            | 15.679            | 15.711   | 15.204     |
| N° 5       | 23.274          | 21.691          | 20.599           | 19.366           | 18.450           | 17.455           | 16.670           | 16.150            | 15.469            | 14.817            | 14.052            | 13.540            | 13.532   | 13.370     |
| N° 6       | 25.379          | 24.264          | 23.292           | 22.039           | 20.989           | 19.971           | 19.049           | 18.410            | 17.638            | 16.857            | 15.982            | 15.332            | 15.333   | 15.202     |
| N° 7       | 23.325          | 21.982          | 21.023           | 19.893           | 19.002           | 18.056           | 17.318           | 16.772            | 16.135            | 15.473            | 14.694            | 14.123            | 14.151   | 13.496     |
| N° 8       | 25.354          | 24.402          | 23.494           | 22.300           | 21.389           | 20.351           | 19.512           | 18.891            | 18.171            | 17.384            | 16.504            | 15.868            | 15.868   | 15.257     |
| N° 9       | 25.200          | 24.155          | 23.119           | 21.750           | 20.651           | 19.376           | 18.312           | 17.555            | 16.640            | 15.729            | 14.641            | 14.007            | 13.997   | 14.420     |
| N° 10      | 21.508          | 20.329          | 19.469           | 18.369           | 17.545           | 16.565           | 15.839           | 15.285            | 14.637            | 13.954            | 13.211            | 12.648            | 12.635   | 12.179     |
| N° 11      | 23.190          | 21.970          | 21.074           | 19.956           | 19.003           | 17.973           | 17.171           | 16.560            | 15.857            | 15.101            | 14.250            | 13.642            | 13.652   | 13.170     |
| N° 12      | 21.561          | 20.193          | 19.222           | 18.069           | 17.182           | 16.164           | 15.416           | 14.858            | 14.209            | 13.535            | 12.790            | 12.198            | 12.227   | 11.860     |
| N° 13      | 21.467          | 20.166          | 19.230           | 18.137           | 17.300           | 16.315           | 15.645           | 15.103            | 14.494            | 13.852            | 13.102            | 12.591            | 12.574   | 12.096     |
| N° 14      | 22.121          | 20.820          | 19.916           | 18.759           | 17.911           | 16.989           | 16.290           | 15.750            | 15.135            | 14.519            | 13.797            | 13.261            | 13.275   | 12.613     |
| N° 15      | 26.043          | 25.399          | 24.661           | 23.624           | 22.758           | 21.720           | 20.838           | 20.184            | 19.398            | 18.653            | 17.670            | 17.041            | 17.042   | 16.734     |
| N° 16      | 23.240          | 21.861          | 20.865           | 19.682           | 18.760           | 17.735           | 16.949           | 16.383            | 15.663            | 14.994            | 14.210            | 13.584            | 13.598   | 13.086     |
| N° 17      | 22.832          | 21.536          | 20.544           | 19.343           | 18.422           | 17.333           | 16.534           | 15.932            | 15.226            | 14.500            | 13.677            | 13.056            | 13.056   | 12.747     |
| N° 18      | 25.925          | 25.237          | 24.481           | 23.437           | 22.512           | 21.485           | 20.602           | 20.031            | 19.214            | 18.037            | 17.524            | 16.829            | 16.810   | 16.304     |
| N° 19      | 20.780          | 19.558          | 18.664           | 17.602           | 16.779           | 15.812           | 15.114           | 14.618            | 13.995            | 13.375            | 12.699            | 12.145            | 12.151   | 11.626     |
| N° 20      | 25.399          | 24.256          | 23.258           | 22.093           | 21.181           | 20.177           | 19.332           | 18.744            | 18.049            | 17.309            | 16.470            | 15.821            | 15.827   | 15.211     |
| N° 21      | 21.836          | 20.285          | 19.267           | 18.088           | 17.219           | 16.248           | 15.518           | 15.005            | 14.398            | 13.789            | 12.970            | 12.583            | 12.588   | 12.287     |
| N° 22      | 22.745          | 21.419          | 20.448           | 19.309           | 18.448           | 17.487           | 16.758           | 16.218            | 15.571            | 14.933            | 14.200            | 13.614            | 13.637   | 12.991     |
| N° 23      | 21.007          | 19.746          | 18.826           | 17.729           | 16.889           | 15.904           | 15.196           | 14.653            | 14.039            | 13.423            | 12.630            | 12.130            | 12.132   | 11.671     |
| N° 24      | 26.369          | 25.837          | 25.124           | 24.290           | 23.471           | 22.577           | 21.635           | 21.017            | 20.227            | 19.415            | 18.497            | 17.760            | 17.779   | 17.212     |
| N° 25      | 24.701          | 23.446          | 22.459           | 21.239           | 20.319           | 19.300           | 18.471           | 17.884            | 17.181            | 16.475            | 15.672            | 15.011            | 15.002   | 14.422     |
| N° 26      | 25.813          | 24.895          | 24.014           | 22.903           | 21.931           | 21.009           | 20.147           | 19.549            | 18.862            | 18.084            | 17.236            | 16.556            | 16.580   | 15.859     |
| N° 27      | 22.130          | 20.820          | 19.931           | 18.800           | 17.946           | 17.014           | 16.309           | 15.796            | 15.172            | 14.544            | 13.829            | 13.234            | 13.235   | 12.600     |
| N° 28      | 21.151          | 19.909          | 18.987           | 17.910           | 17.093           | 16.125           | 15.434           | 14.910            | 14.294            | 13.683            | 12.960            | 12.411            | 12.410   | 11.806     |
| N° 29      | 25.517          | 24.636          | 23.663           | 22.318           | 21.186           | 19.936           | 18.829           | 18.080            | 17.168            | 16.226            | 15.208            | 14.424            | 14.378   | 14.831     |
| N° 30      | 24.028          | 22.575          | 21.516           | 20.318           | 19.434           | 18.484           | 17.758           | 17.203            | 16.580            | 15.987            | 15.189            | 14.694            | 14.673   | 14.324     |
| N° 31      | 24.941          | 23.826          | 22.843           | 21.603           | 20.661           | 19.554           | 18.669           | 18.030            | 17.250            | 16.527            | 15.620            | 14.925            | 14.928   | 14.513     |