

PCN

AO-PCN-2026-084-A

Introduction of new chip for LED Engin products

15.09.2026

Dear Customer,

please review this **PCN** and provide your feedback in the **Customer approval form** (at the end of this PCN document) to your ams OSRAM sales partner before **22.10.2026** *).

Your prompt reply will help ams OSRAM to assure a smooth and well executed transition. If ams OSRAM does not hear from your side by the due date, we will assume your (if you are a Distributor: and your customer's) full acceptance to this proposed change and its implementation.

ams OSRAM understands the time requirements your organization needs to approve this PCN. However, if you can provide ams OSRAM an estimated date your organization will have finalized this PCN review, ams OSRAM can use this date to plan continued production to secure your order needs during the transition time.

Your attention and response to this matter is highly appreciated.

Please direct your inquiries to your local Sales office.

- *) ams OSRAM aligns with the widely recognized JEDEC/ECIA/IPC Joint Standard No. 46, which stipulates:
- Customers should acknowledge receipt of the PCN within 30 days of delivery of the PCN.
 - Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.
 - After acknowledgement, lack of additional response within the 90 day period constitutes acceptance of the change. If the customer requires additional time to perform sample testing, beyond the 90 day review period, an extension must be negotiated with the supplier.

Subject of change: Introduction of new chip for LED Engin products

Affected products: Refer to document 2_cip_AO-PCN-2026-084-A

Reason for change:

- Increase in radiant flux
- Securing of chip supply

Current status

Current chip

New status

New chip

Description of change:

For details refer to document 2_cip_AO-PCN-2026-084-A

Product identification: e.g. Date code / Laser marking on device

Time schedule

for PCN material:

(after implementation
of change):

Final qualification report:

15.09.2026

Samples available:

On request

Intended Start of delivery:

01.10.2026 ^{*)}

^{*)} or earlier if released by customer and upon mutual agreement

Time schedule

for Pre-PCN material:

(prior to implementation
of change):

Last time order date (LTO):

31.12.2026 ^{**)}

^{**)} Lead time and LTO quantity shall be mutually agreed between ams OSRAM and customer.

Last time delivery date (LTD):

31.03.2027 ^{***)}

^{***)} planned last date for delivery of products of current status

Assessment:

No change in fit and form.

Documentation:

Customer information package 2_cip_AO-PCN-2026-084-A
3_Qual_ AO-PCN-2026-084-A

Note:

Pre-PCN material: Products of current status, means before implementation of the changes as described in the PCN.

PCN material: Products with implementation of the changes as described in the PCN.

Customer approval form AO-PCN-2026-084-A

Introduction of new chip for LED Engin products

Please list product(s) affected in your application(s):

Please check the appropriate box below:

- | | |
|--|---|
| ☐ Approval:
We agree with the proposed change and accept start of the shipment upon availability of PCN material | ☐ Not relevant:
Change is not relevant for products in use. |
|--|---|

☐ **Change cannot be accepted:**

- ☐ **We have objections:**
- ☐ **We request following Information:**
- ☐ **We request following Samples:**
- ☐ **Expected approval date:**
- ☐ **Volume requirements for Pre-PCN material:**

☐ **Remarks:**

Sender:

Company:

Address / Location:

Signature:

Date:

Please return this approval form to your Sales partner.

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PCN

AO-PCN-2026-084-A

Introduction of new chip for LED Engin products

Customer information package

Department
2026-09-15

Agenda

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Introduction of new chip for LED Engin products

Reason for change

Item	Description
Item 1	Increase in radiant flux
Item 2	Securing of chip supply

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Introduction of new chip for LED Engin products

Description of change

Item	Current status	New status
Item 1	Current chip	New chip

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Introduction of new chip for LED Engin products

Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status																		
Item 1	<table><tr><th colspan="3">Ordering Information</th></tr><tr><td>Type</td><td>Total radiant flux ¹⁾ I_F = 700 mA Φ_E</td><td>Ordering Code</td></tr><tr><td>LZ4-01R608-0000</td><td>1.6 ... 3.0 W</td><td>Q65113A1754</td></tr></table>	Ordering Information			Type	Total radiant flux ¹⁾ I _F = 700 mA Φ _E	Ordering Code	LZ4-01R608-0000	1.6 ... 3.0 W	Q65113A1754	<table><tr><th colspan="3">Ordering Information</th></tr><tr><td>Type</td><td>Total radiant flux ¹⁾ I_F = 700 mA Φ_E</td><td>Ordering Code</td></tr><tr><td>LZ4-01R608-0000</td><td>2.2 ... 4.3 W</td><td>Q65115A4637</td></tr></table>	Ordering Information			Type	Total radiant flux ¹⁾ I _F = 700 mA Φ _E	Ordering Code	LZ4-01R608-0000	2.2 ... 4.3 W	Q65115A4637
Ordering Information																				
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LZ4-01R608-0000	1.6 ... 3.0 W	Q65113A1754																		
Ordering Information																				
Type	Total radiant flux ¹⁾ I _F = 700 mA Φ _E	Ordering Code																		
LZ4-01R608-0000	2.2 ... 4.3 W	Q65115A4637																		

Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Introduction of new chip for LED Engin products

Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status						
Item 2	Characteristics I _F = 700 mA; T _C = 25 °C; all chips operated in series	Characteristics I _F = 700 mA; T _C = 25 °C; all chips operated in series						
	Parameter	Symbol	Values	Parameter	Symbol	Values		
	Forward Voltage ^{5/6)}	V _F	min.	10.80 V	Forward Voltage ^{5/6)}	V _F	min.	10.80 V
	I _F = 700 mA		typ.	11.85 V	I _F = 700 mA		typ.	12.34 V
			max.	14.80 V			max.	14.80 V

Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Introduction of new chip for LED Engin products

Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status																					
Item 3	Brightness Groups all chips operated in series <table><tr><th>Group</th><th>Total radiant flux ¹⁾ I_F = 700 mA min. Φ_E</th><th>Total radiant flux ¹⁾ I_F = 700 mA max. Φ_E</th></tr><tr><td>PQ</td><td>1.6 W</td><td>2.4 W</td></tr><tr><td>R</td><td>2.4 W</td><td>3.0 W</td></tr></table>	Group	Total radiant flux ¹⁾ I _F = 700 mA min. Φ _E	Total radiant flux ¹⁾ I _F = 700 mA max. Φ _E	PQ	1.6 W	2.4 W	R	2.4 W	3.0 W	Brightness Groups <table><tr><th>Group</th><th>Total radiant flux ¹⁾ I_F = 700 mA min. Φ_E</th><th>Total radiant flux ¹⁾ I_F = 700 mA max. Φ_E</th></tr><tr><td>Q2</td><td>2.2 W</td><td>2.7 W</td></tr><tr><td>R2</td><td>2.7 W</td><td>3.4 W</td></tr><tr><td>S2</td><td>3.4 W</td><td>4.3 W</td></tr></table>	Group	Total radiant flux ¹⁾ I _F = 700 mA min. Φ _E	Total radiant flux ¹⁾ I _F = 700 mA max. Φ _E	Q2	2.2 W	2.7 W	R2	2.7 W	3.4 W	S2	3.4 W	4.3 W
Group	Total radiant flux ¹⁾ I _F = 700 mA min. Φ _E	Total radiant flux ¹⁾ I _F = 700 mA max. Φ _E																					
PQ	1.6 W	2.4 W																					
R	2.4 W	3.0 W																					
Group	Total radiant flux ¹⁾ I _F = 700 mA min. Φ _E	Total radiant flux ¹⁾ I _F = 700 mA max. Φ _E																					
Q2	2.2 W	2.7 W																					
R2	2.7 W	3.4 W																					
S2	3.4 W	4.3 W																					

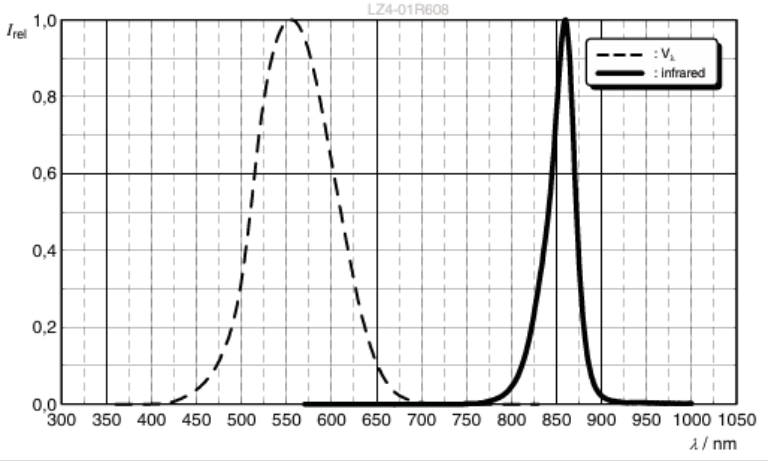
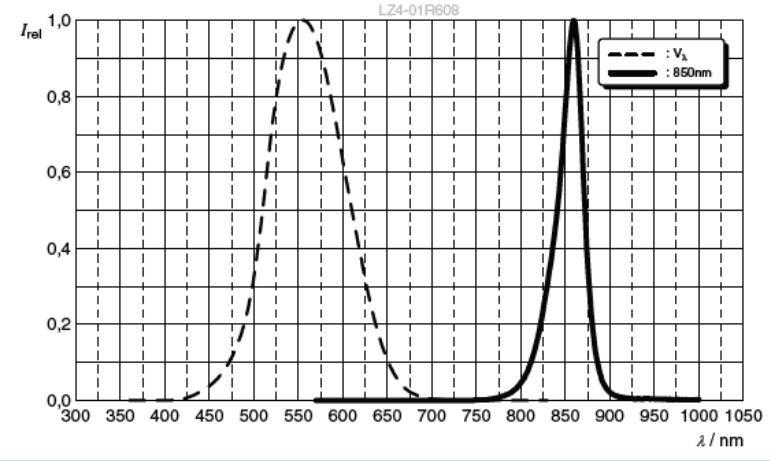
Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status
Item 4	Relative Spectral Emission ⁶⁾ $I_{rel} = f(\lambda); I_F = 700 \text{ mA}; T_C = 25 \text{ }^{\circ}\text{C}$ 	Relative Spectral Emission ⁶⁾ $I_{rel} = f(\lambda); I_F = 700 \text{ mA}; T_C = 25 \text{ }^{\circ}\text{C}$ 

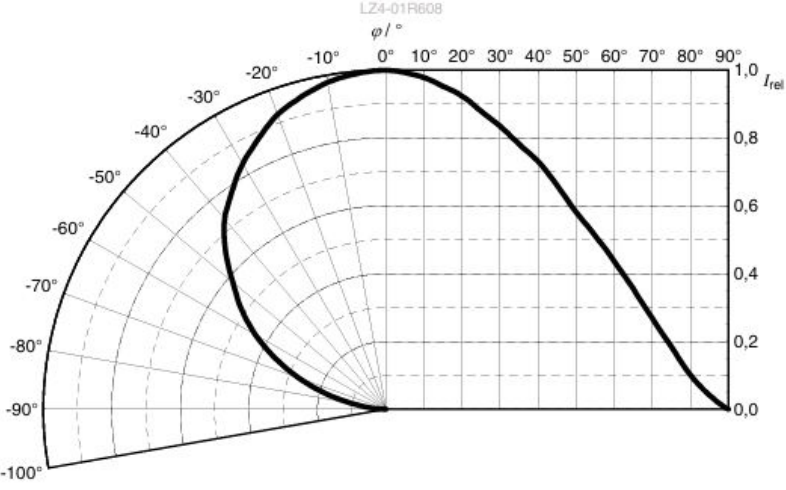
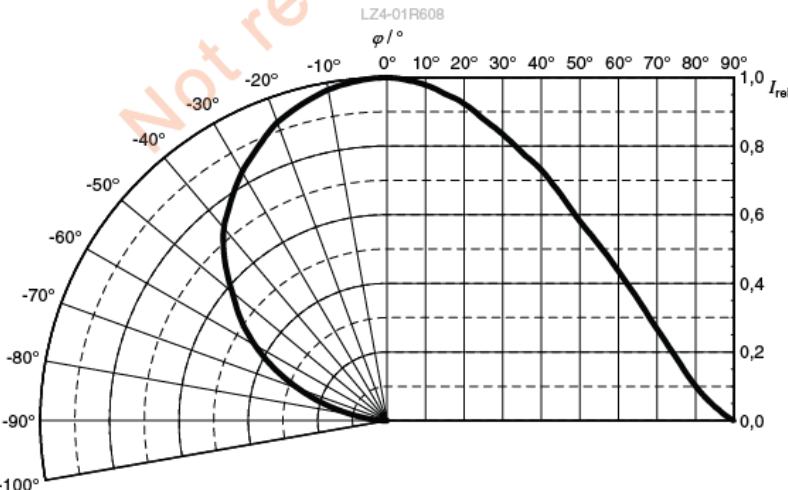
Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status
Item 5	Radiation Characteristics ⁶⁾ $I_{rel} = f(\varphi); T_C = 25\text{ }^{\circ}\text{C}$ LZ4-01R608 	Radiation Characteristics ⁶⁾ $I_{rel} = f(\varphi); T_C = 25\text{ }^{\circ}\text{C}$ LZ4-01R608 

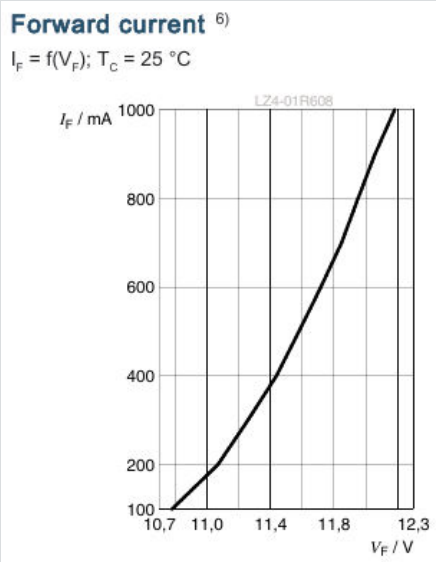
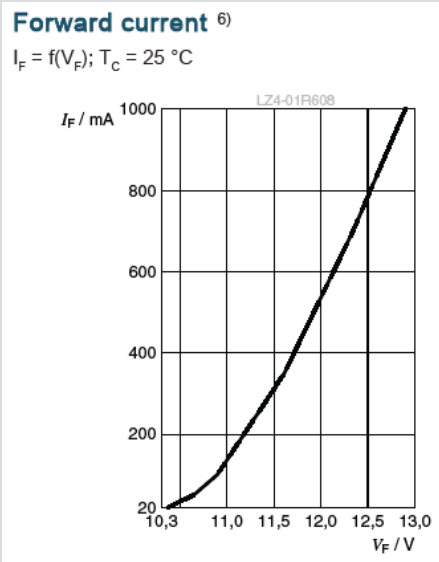
Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status
Item 6	Forward current ⁶⁾ $I_F = f(V_F); T_C = 25\text{ °C}$ 	Forward current ⁶⁾ $I_F = f(V_F); T_C = 25\text{ °C}$ 

Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Introduction of new chip for LED Engin products

Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status
Item 7	Relative Radiant Power ^{6), 7)} $\Phi_E/\Phi_E(700\text{ mA}) = f(I_F); T_C = 25\text{ °C}$ LZ4-01R608	Relative Radiant Power ^{6), 7)} $\Phi_E/\Phi_E(700\text{ mA}) = f(I_F); T_C = 25\text{ °C}$ LZ4-01R608

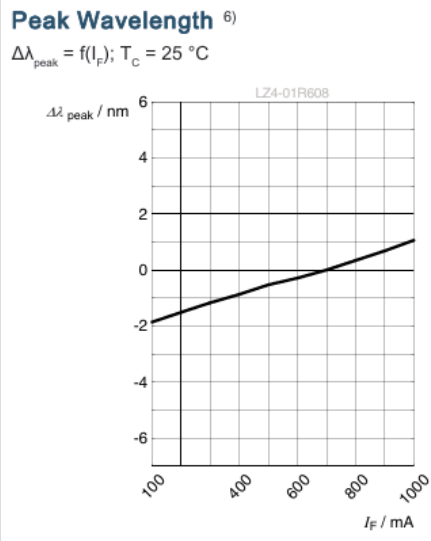
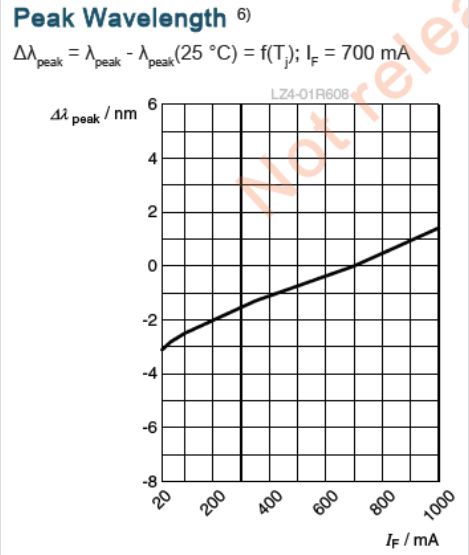
Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Introduction of new chip for LED Engin products

Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status
Item 8	Peak Wavelength ⁶⁾ $\Delta\lambda_{\text{peak}} = f(I_F); T_C = 25\text{ }^{\circ}\text{C}$ 	Peak Wavelength ⁶⁾ $\Delta\lambda_{\text{peak}} = \lambda_{\text{peak}} - \lambda_{\text{peak}}(25\text{ }^{\circ}\text{C}) = f(T_j); I_F = 700\text{ mA}$ 

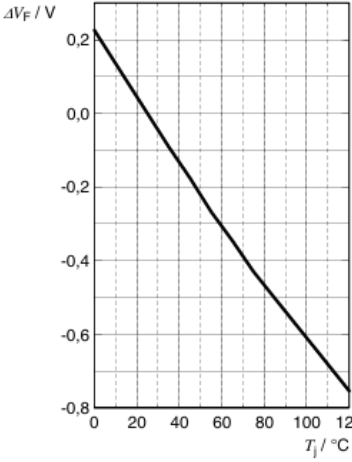
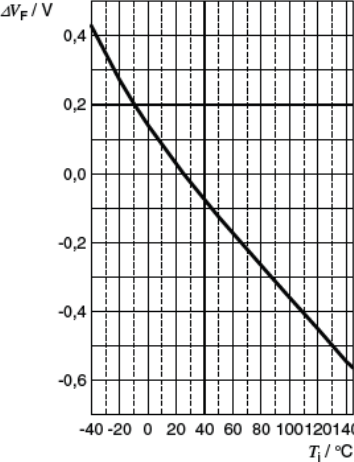
Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Introduction of new chip for LED Engin products

Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status
Item 9	Forward Voltage ⁶⁾ $\Delta V_F = V_F - V_F(25\text{ }^{\circ}\text{C}) = f(T_j); I_F = 700\text{ mA}$ LZ4-01R608 	Forward Voltage ⁶⁾ $\Delta V_F = V_F - V_F(25\text{ }^{\circ}\text{C}) = f(T_j); I_F = 700\text{ mA}$ LZ4-01R608 

Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Introduction of new chip for LED Engin products

Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status
Item 10	Relative Radiant Power ⁶⁾ $\Phi_E/\Phi_E(25\text{ °C}) = f(T_J); I_F = 700\text{ mA}$	Relative Radiant Power ⁶⁾ $\Phi_E/\Phi_E(25\text{ °C}) = f(T_J); I_F = 700\text{ mA}$

Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Introduction of new chip for LED Engin products

Changes in the datasheets

Example: LZ4-01R608

Item	Current status	New status
Item 11	Peak Wavelength ⁶⁾ $\Delta\lambda_{\text{peak}} = \lambda_{\text{peak}} - \lambda_{\text{peak}}(25\text{ °C}) = f(T_j); I_F = 700\text{ mA}$ LZ4-01R608	Peak Wavelength ⁶⁾ $\Delta\lambda_{\text{peak}} = \lambda_{\text{peak}} - \lambda_{\text{peak}}(25\text{ °C}) = f(T_j); I_F = 700\text{ mA}$ LZ4-01R608

Note: Please see the datasheet on the ams OSRAM homepage for changes in the other devices.

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Introduction of new chip for LED Engin products

Changes in the datasheets: Updated Datasheet Version

Product type	Data sheet version <u>before PCN</u>	Data sheet version <u>after PCN</u>
LZ1-00R602	1.9	1.10
LZ1-00R702	1.9	1.10
LZ1-10R602	1.1	1.2
LZ1-10R702	1.1	1.2
LZ4-00R608	1.7	1.8
LZ4-00R708	1.7	1.8
LZ4-00RW08	1.2	1.3
LZ4-01R608	1.5	1.6
LZ4-01R708	1.5	1.6
LZ4-40R608	1.1	1.2
LZ4-40R708	1.1	1.2

Note: After PCN approval and shipment of new material, the new data sheet versions will be valid.
Latest version of data sheet is accessible on the ams OSRAM homepage.

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Introduction of new chip for LED Engin products

List of affected products

LED Engin
LZ1-00R602
LZ1-00R702
LZ1-10R602
LZ1-10R702
LZ4-00R608
LZ4-00R708
LZ4-00RW08
LZ4-01R608
LZ4-01R708
LZ4-40R608
LZ4-40R708

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Introduction of new chip for LED Engin products

PCN Samples

LED Engin
LZ1-00R602
LZ1-00R702
LZ1-10R602
LZ1-10R702
LZ4-00R608
LZ4-00R708
LZ4-00RW08
LZ4-01R608
LZ4-01R708
LZ4-40R608
LZ4-40R708

Color code: available on request

AO-PCN-2026-084-A

Introduction of new chip for LED Engin products

Time schedule

for PCN material (<u>after</u> implementation of change):		
Final qualification report	15.09.2026	
Samples available	On request	
Intended Start of delivery	01.10.2026 *)	*) or earlier if released by customer and upon mutual agreement

for Pre-PCN material (<u>prior to</u> implementation of change):		
Last time order date (LTO)	31.12.2026 **)	**) Lead time and LTO quantity shall be mutually agreed between ams OSRAM and customer.
Last time delivery date (LTD)	31.03.2027 ***)	***) planned last date for delivery of products of current status

Note:

Pre-PCN material: Products of current status, means before implementation of the changes as described in the PCN.

PCN material: Products with implementation of the changes as described in the PCN.

Sensing is life



Reliability Report 260185C1

Subject	Reliability Report of new chip for LED ENGIN products according to AO-PCN-2026-084-A
Date	15.09.2026
Tested device	LZ4-00R708; LZ4-00R608
Brand (including sub brands)	LED ENGIN
Applies to	LZ4-00R708; LZ4-00R608; LZ4-00RW08; LZ4-01R708; LZ1-00R702; LZ1-00R602; LZ1-10R602; LZ1-10R702; LZ4-01R608; LZ4-40R608; LZ4-40R708

Pre-conditioning according to Jedec Level II

LZ4-00R708

Test Performed		Condition	Duration	Sample Size	El.	Failures Opt.	Vis
Temperature Cycling TC	JESD22-A104	T _A = -40°C/+125°C	1000c	1x24 1x12	0	0	0
High Temperature Operating Life HTOL1	JESD22-A108	T _A = 85°C; I _F = 900mA	1000h	1x24 1x12	0	0	0
High Temperature Operating Life HTOL2	JESD22-A108	T _A = 55°C; I _F = 1000mA	1000h	1x24 1x12	0	0	0
Pulsed Operating Life PLT	JESD22-A108	T _A = 55°C I _F = 2000mA; tp = 10ms; D = 10%	750h	1x24 1x12	0	0	0

Note:
Lot A: Evaluation Lot (new chip)
Lot B: Control Lot (old chip)

Acceptance limit:

- Electrical failures: V_f (I_f=700mA) ± 10% from initial value
- Optical failures: I_v (I_f =700mA) ± 30% from initial value
- Visual failures: acc. JEDEC JESD22-B101 and other standards as referenced in this report

Conclusion: The tested devices representing the product family as stated in the applies to section fulfills the reliability requirements.

Pre-conditioning according to Jedec Level II

LZ4-00R608

Test Performed		Condition	Duration	Sample Size	El.	Failures	
						Opt.	Vis
Temperature Cycling TC	JESD22-A104	T _A = -40°C/+125°C	1000c	1x24 1x12	0	0	0
High Temperature Operating Life HTOL1	JESD22-A108	T _A = 85°C; I _F = 900mA	1000h	1x24 1x12	0	0	0
High Temperature Operating Life HTOL2	JESD22-A108	T _A = 55°C; I _F = 1000mA	1000h	1x24 1x12	0	0	0
Pulsed Operating Life PLT	JESD22-A108	T _A = 55°C I _F = 2000mA; tp = 10ms; D = 10%	750h	1x24 1x12	0	0	0

Note:
Lot A: Evaluation Lot (new chip)
Lot B: Control Lot (old chip)

Acceptance limit:

- Electrical failures: V_f (I_f=700mA) ± 10% from initial value
- Optical failures: I_v (I_f=700mA) ± 30% from initial value
- Visual failures: acc. JEDEC JESD22-B101 and other standards as referenced in this report

Conclusion: The tested devices representing the product family as stated in the applies to section fulfills the reliability requirements.

Disclaimer

PLEASE CAREFULLY READ THE BELOW TERMS AND CONDITIONS BEFORE USING THE INFORMATION.
IF YOU DO NOT AGREE WITH ANY OF THESE TERMS AND CONDITIONS, DO NOT USE THE INFORMATION.

The Information contained in this Document does not constitute an independent warranty. The committed behavior is described in the Product data sheet and/or further, mutually agreed specifications.

Distribution of part or all of the contents of this Document to any 3rd party in any form without the prior permission of ams-OSRAM International GmbH is prohibited except in accordance with applicable mandatory law.

Further explanations:

Data: The Data used in this Document consider the reliability test results under the mentioned driving conditions only. For Product information on the maximum operating conditions and the OSRAM standard qualification profile please refer to the Product data sheet or contact your local sales partner.

Conditions: The conditions for the generation of the Data are as follows:

1. The Data and curves shown in this Document are based on experiments carried out under laboratory conditions on a random sample size of LED/IRED/Laser/Detector with readouts at discrete readout times (where applicable). Thus, the Data above represent a limited number of production lots only and may differ between different assembly lots over time (including chip or package changes). Thus, the behavior of the LED/IRED/Laser/Detector in the final application may differ from the Data. The behavior of the LED/IRED/Laser/Detector at conditions or readout times deviating from those stated above may not be deduced from the Data.

2. If applicable:

a) Extended driving conditions:

The tested driving conditions exceed the maximum limits stated in the Product data sheet. Therefore, a reduced lifetime or an accelerated degradation is expected. Failure limits noted in the Document refer to the testing condition according to the OSRAM standard Product qualification profile and not to the actual testing condition.

b) Extended testing duration:

The testing duration exceed the OSRAM standard qualification profile of the mentioned Product. Failure limits noted in the Document refer to the testing duration according to the OSRAM standard Product qualification profile and not to the actual testing duration.

c) Exceeding standard qualification conditions – (Product data sheet limits not affected):

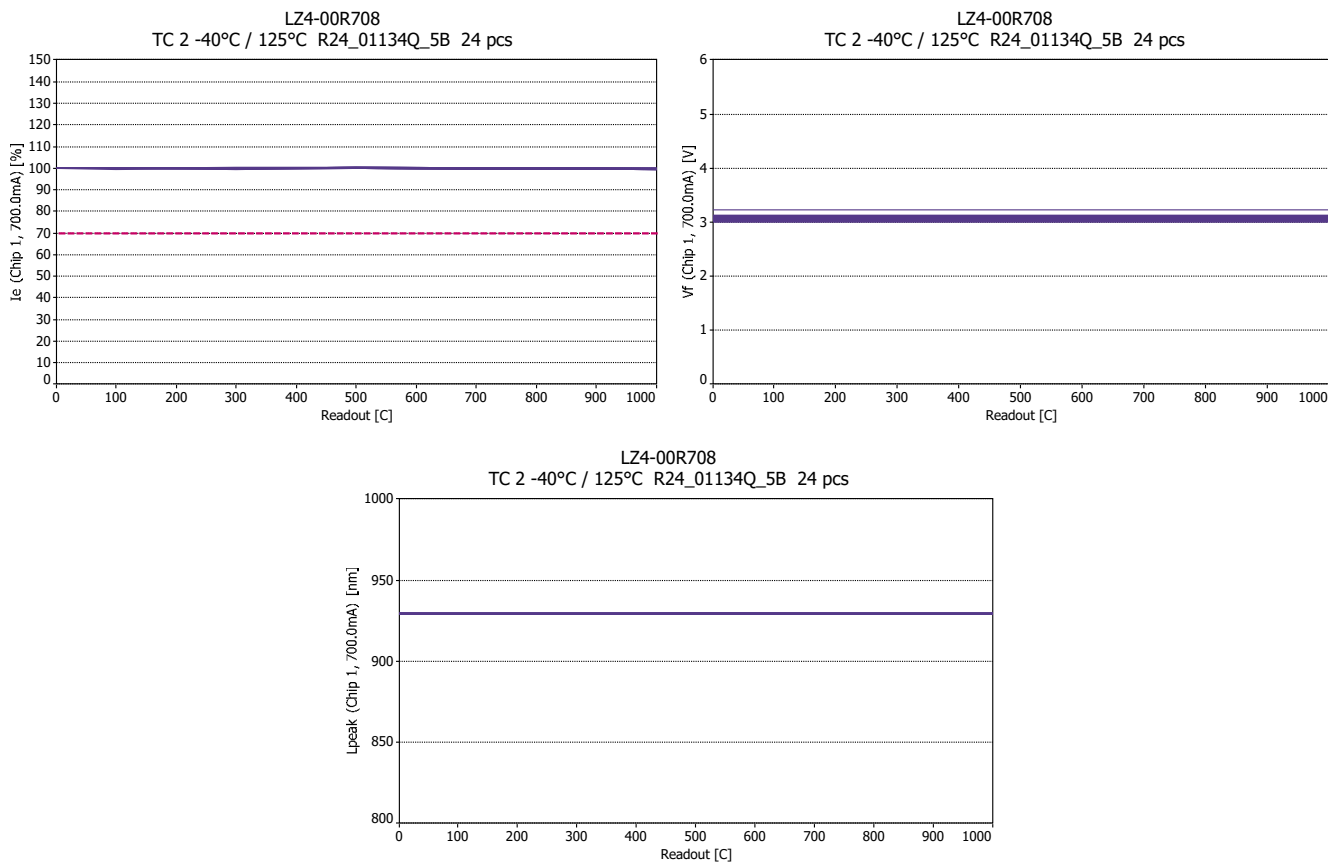
The tested driving conditions exceed the OSRAM standard qualification profile of the mentioned Product. Therefore a reduced lifetime or an accelerated degradation is expected. Failure limits noted in the Document refer to the testing condition according to the OSRAM standard Product qualification profile and not to the actual testing condition.

3. For long term operation additional failure modes of the chip or package can occur which are not shown in this Document.

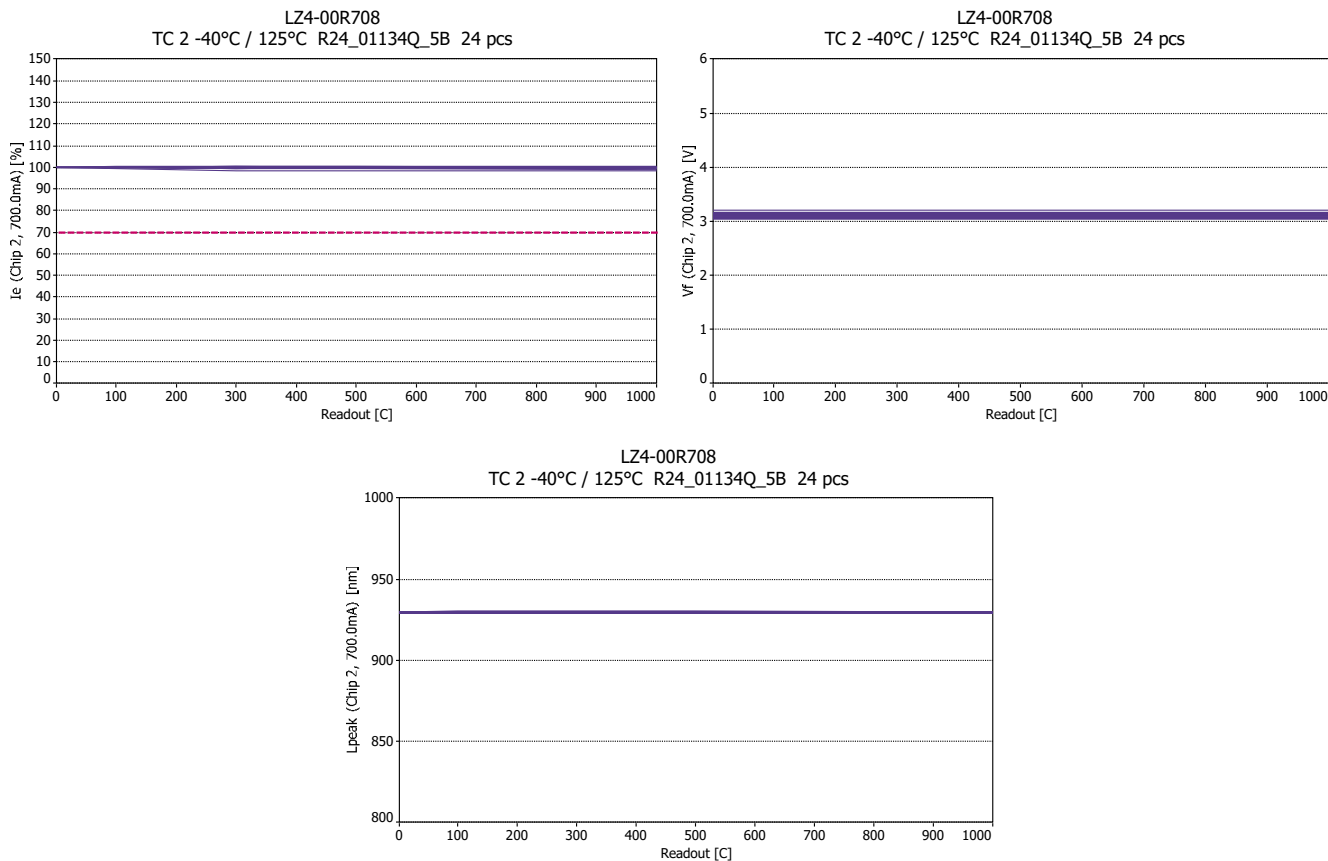
4. Possible differences in the thermal management of OSRAM and customer's setup may lead to a different aging behavior.

LZ4-00R708

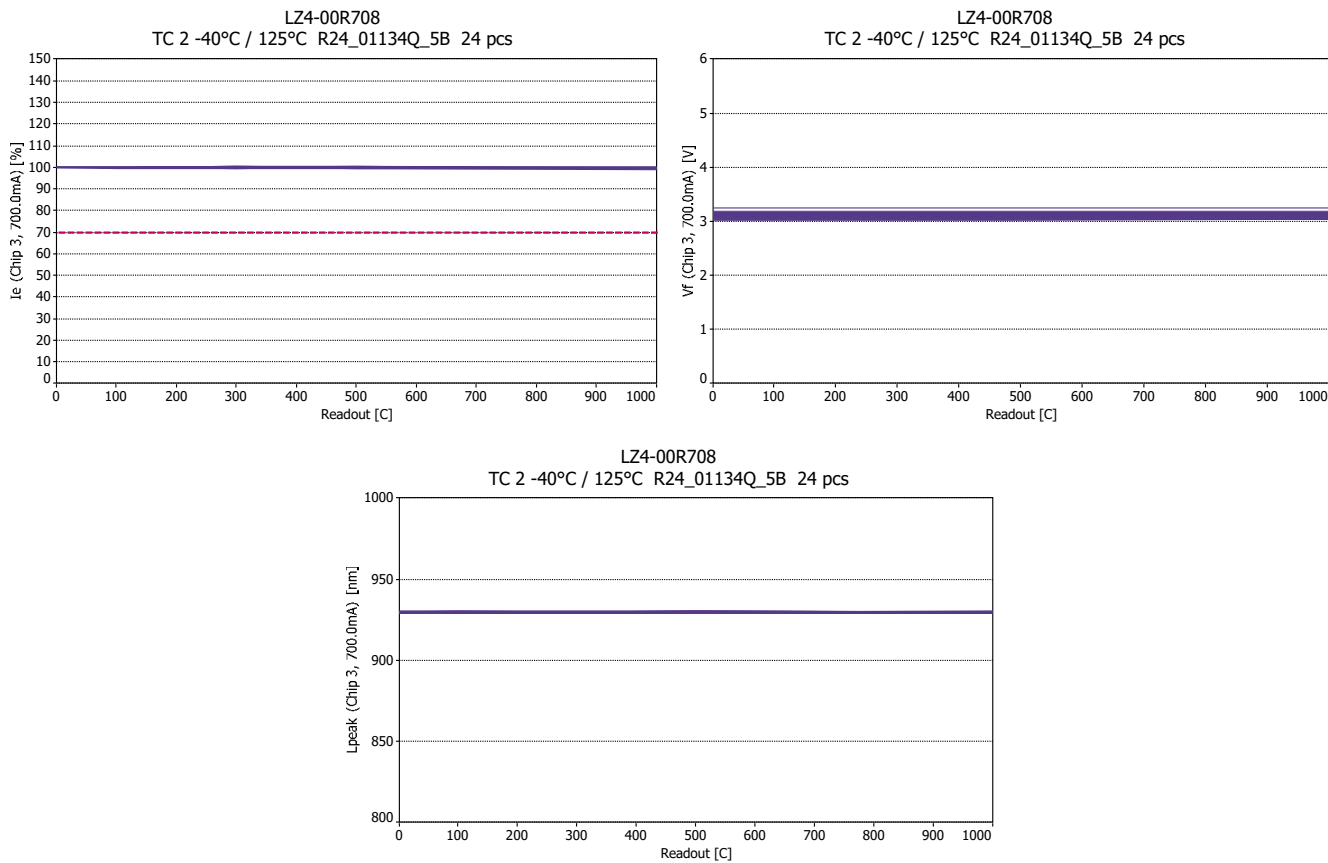
TC -40°C/125°C
Lot A – Chip 1



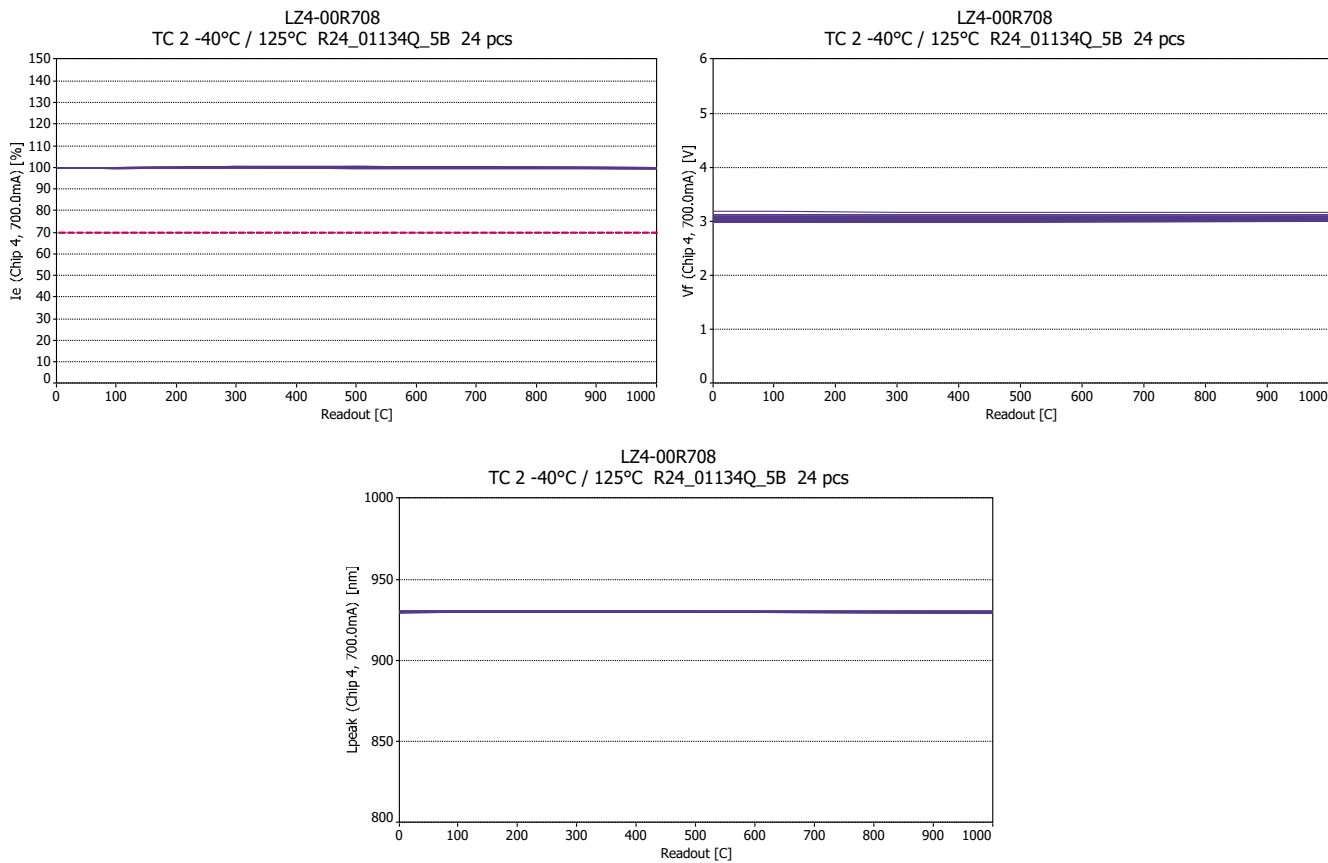
Lot A – Chip 2



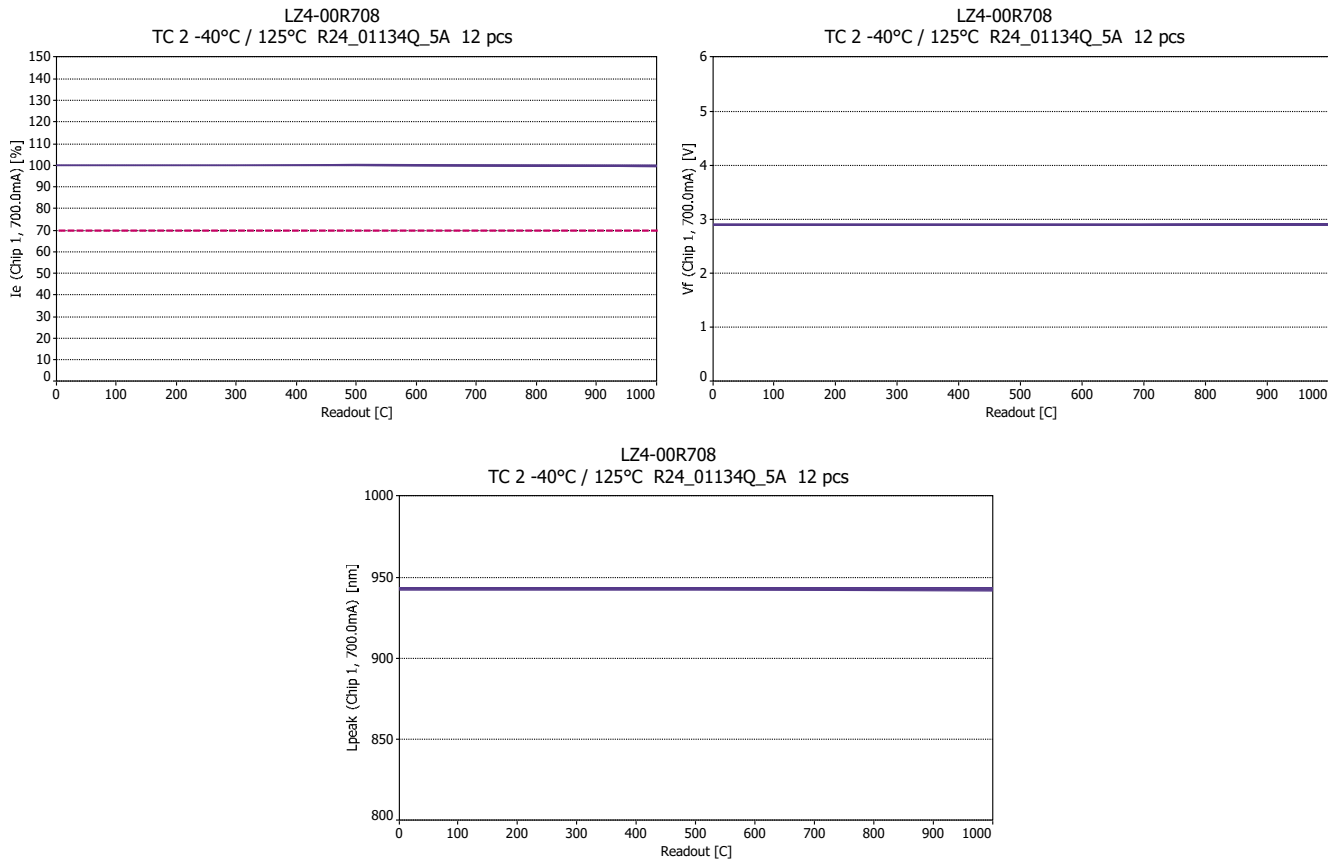
Lot A – Chip 3



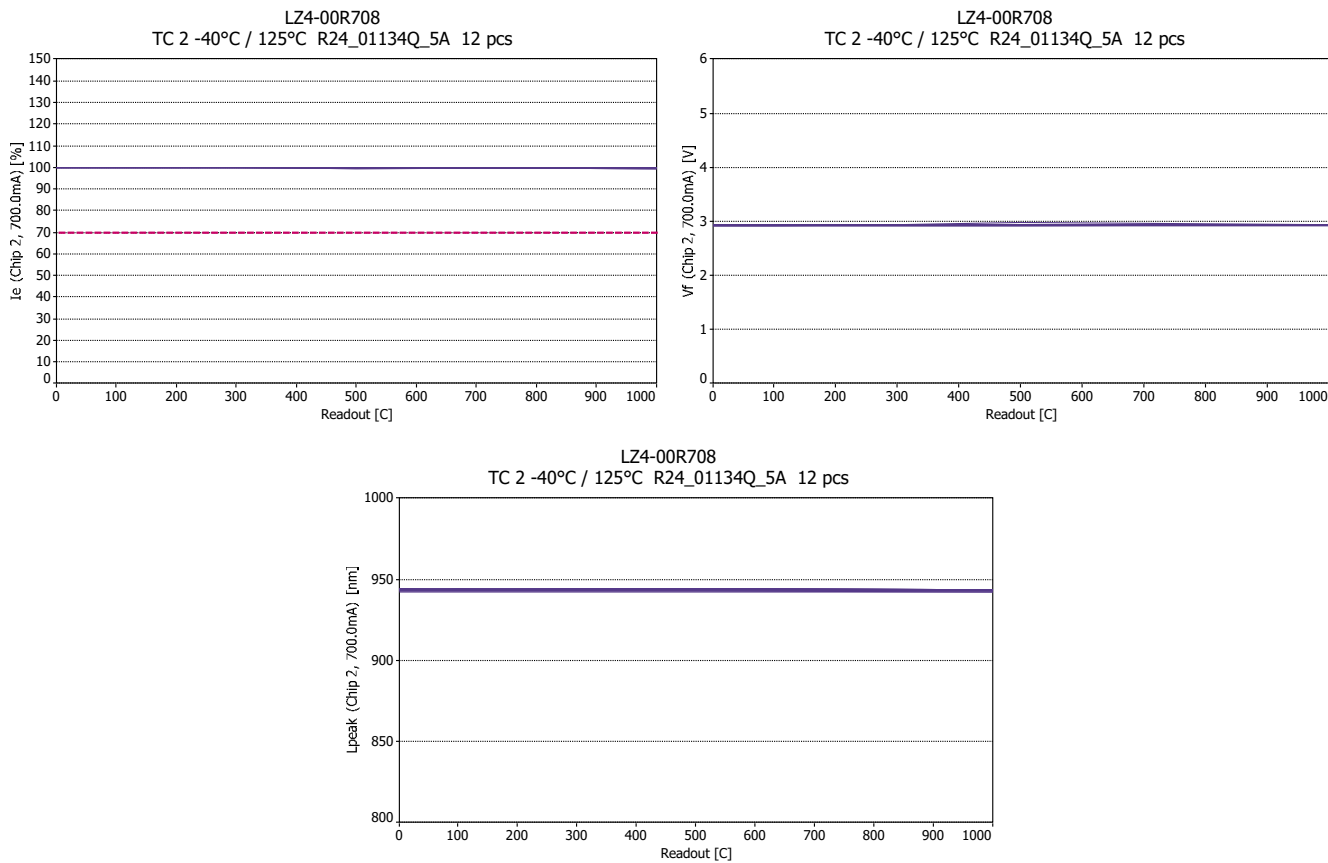
Lot A – Chip 4



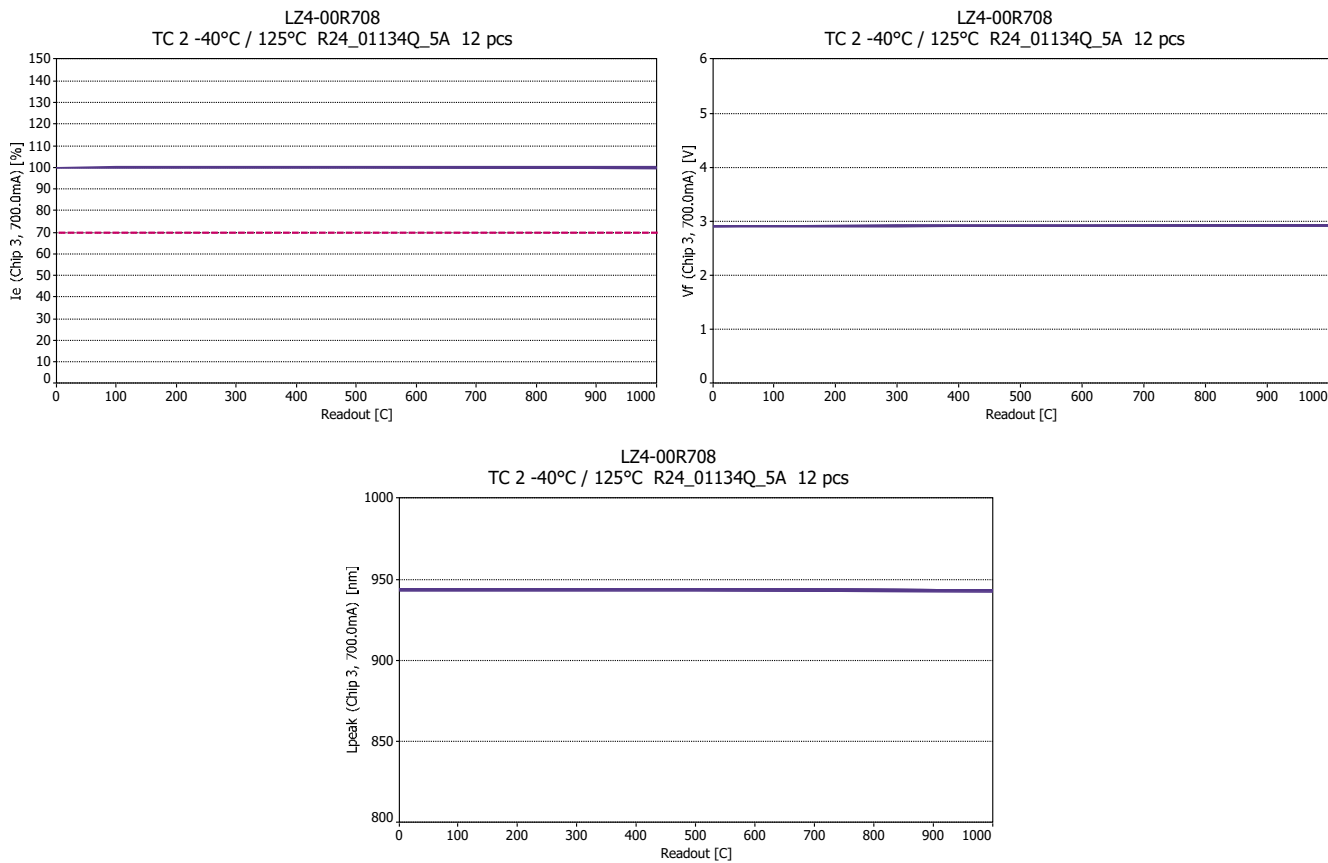
TC -40°C/125°C
Lot B – Chip 1



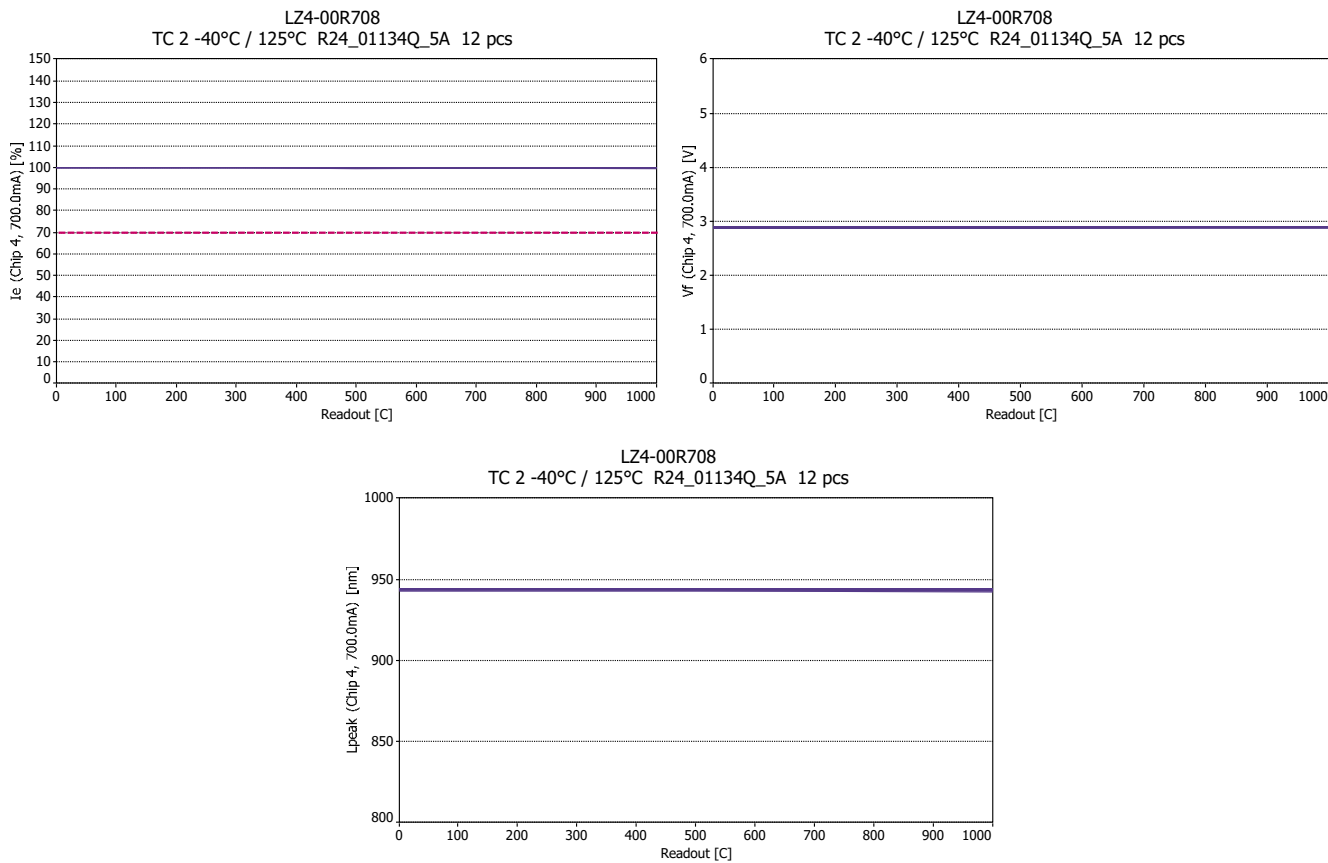
Lot B – Chip 2



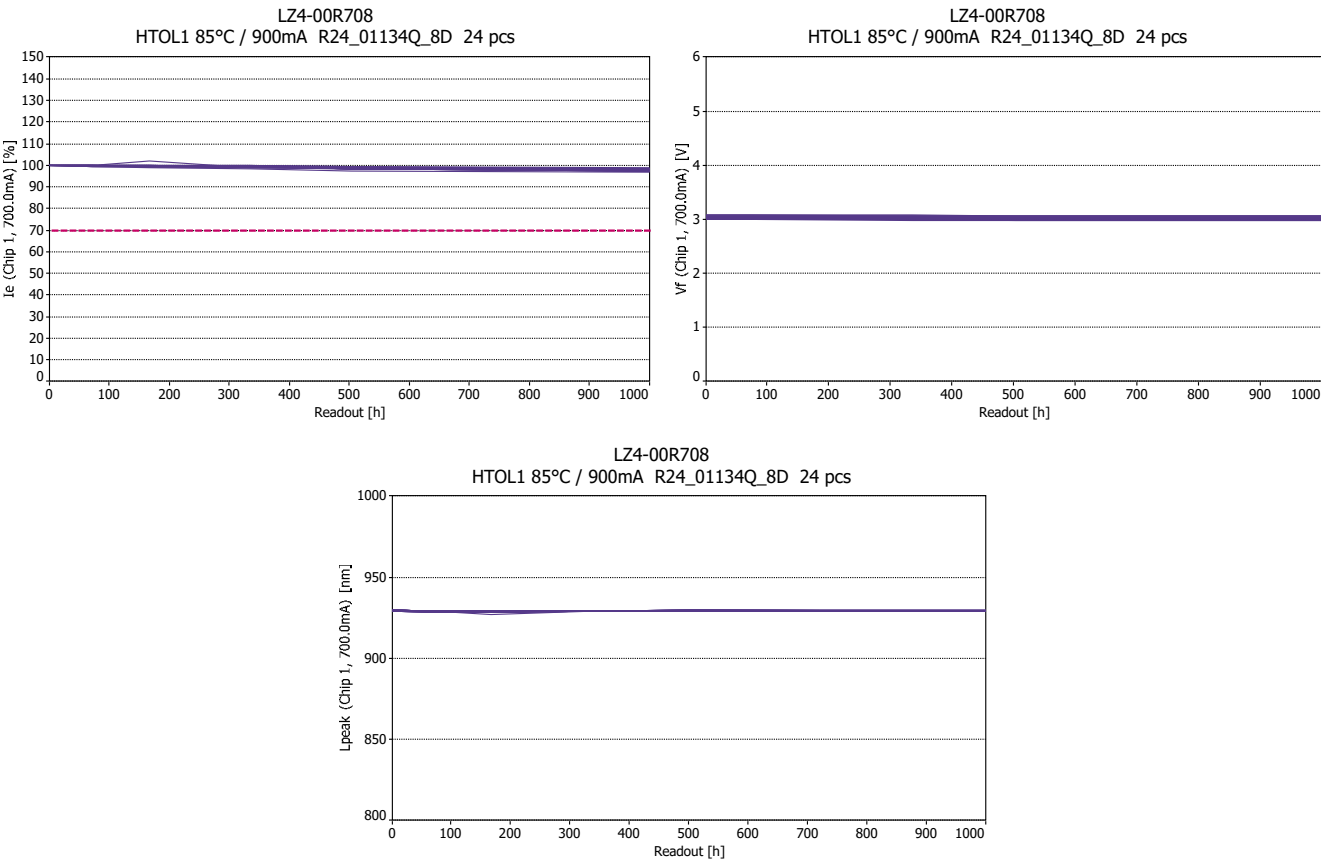
Lot B – Chip 3



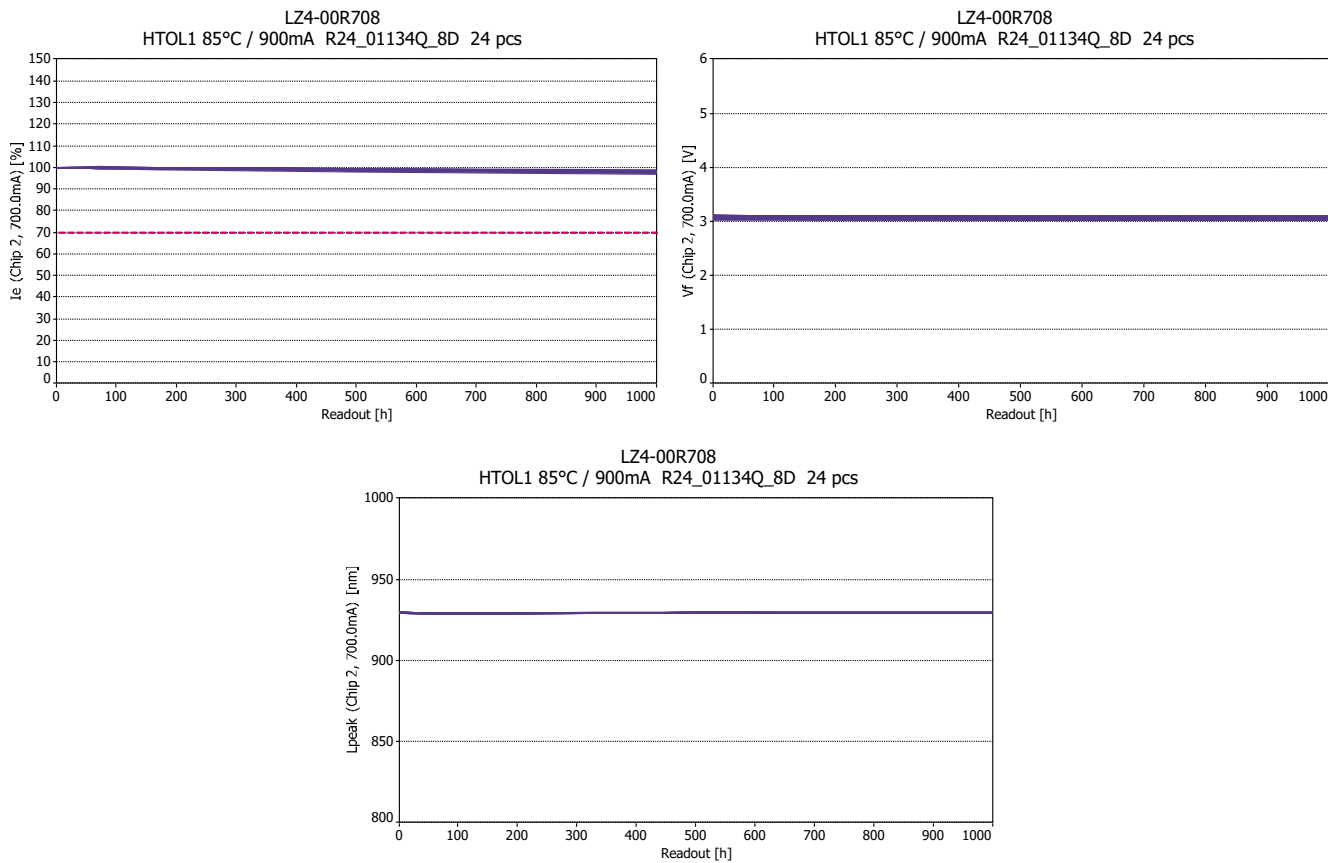
Lot B – Chip 4



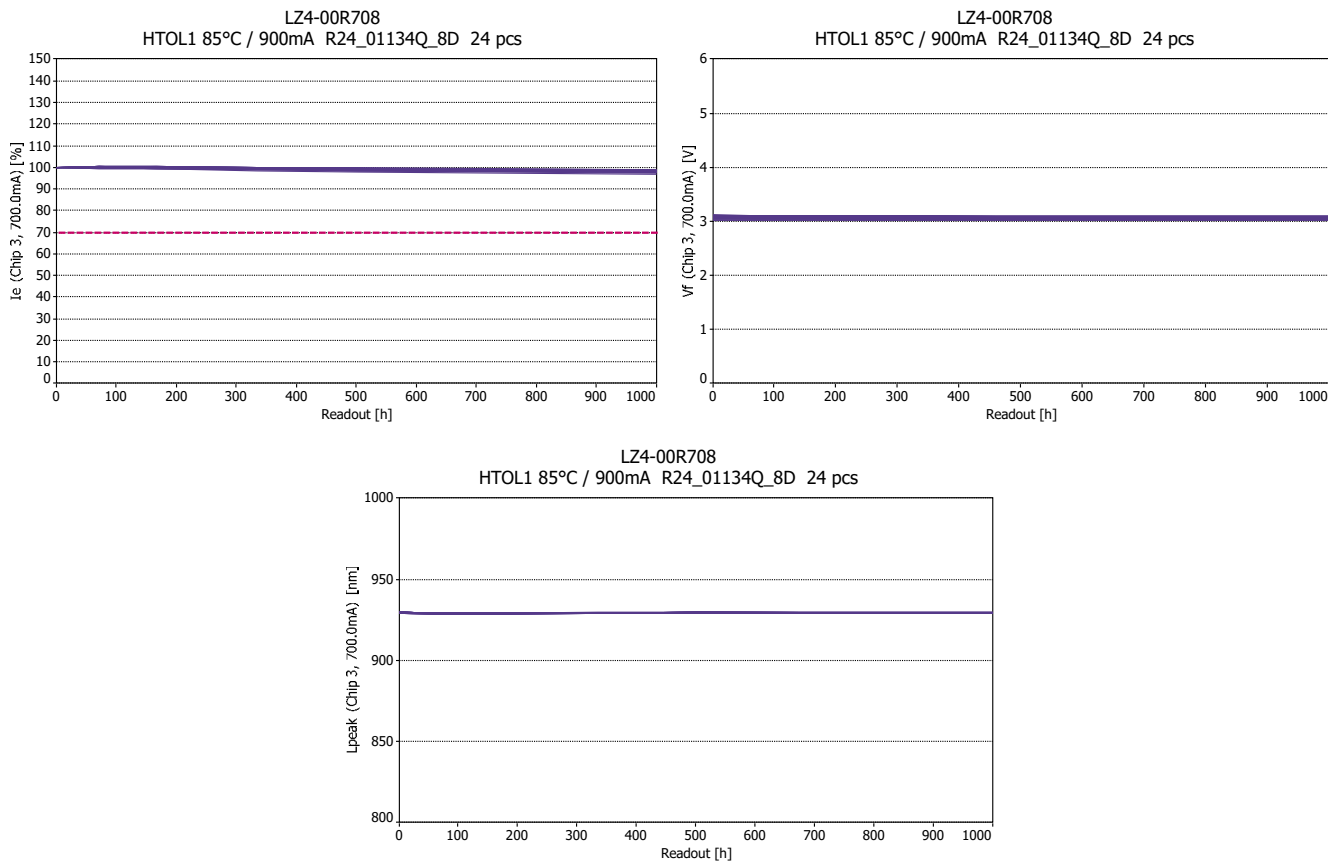
HTOL1 85°C/900mA
Lot A – Chip 1



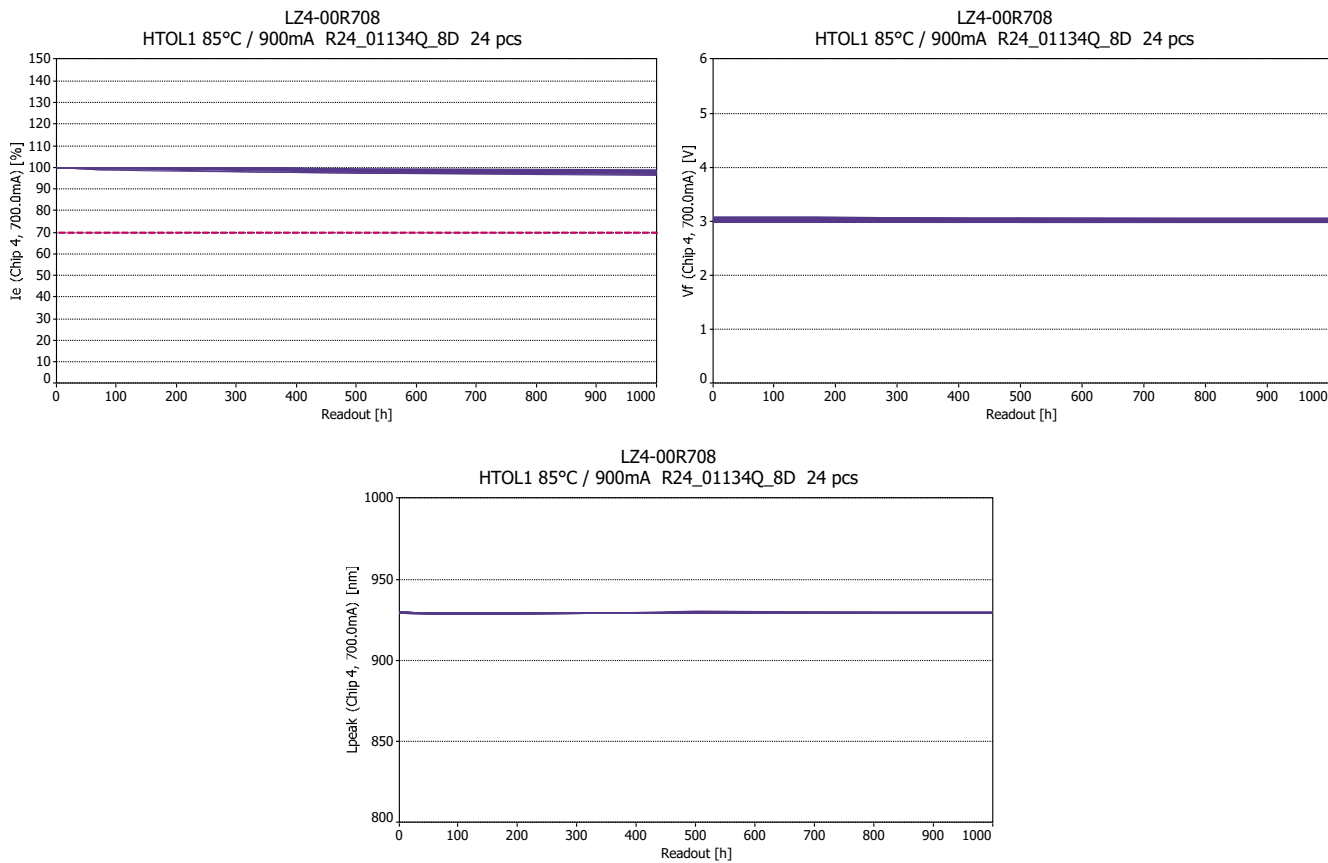
Lot A – Chip 2



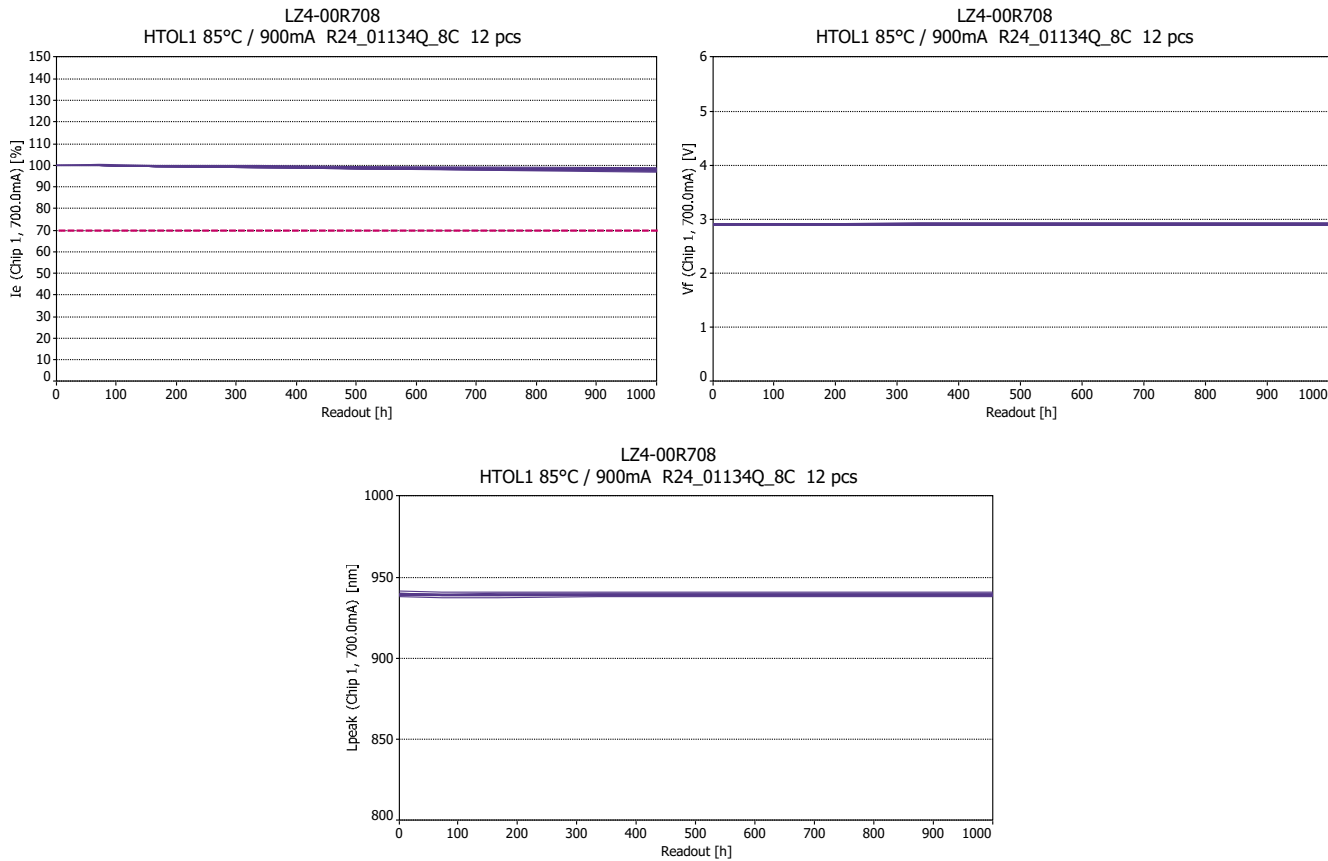
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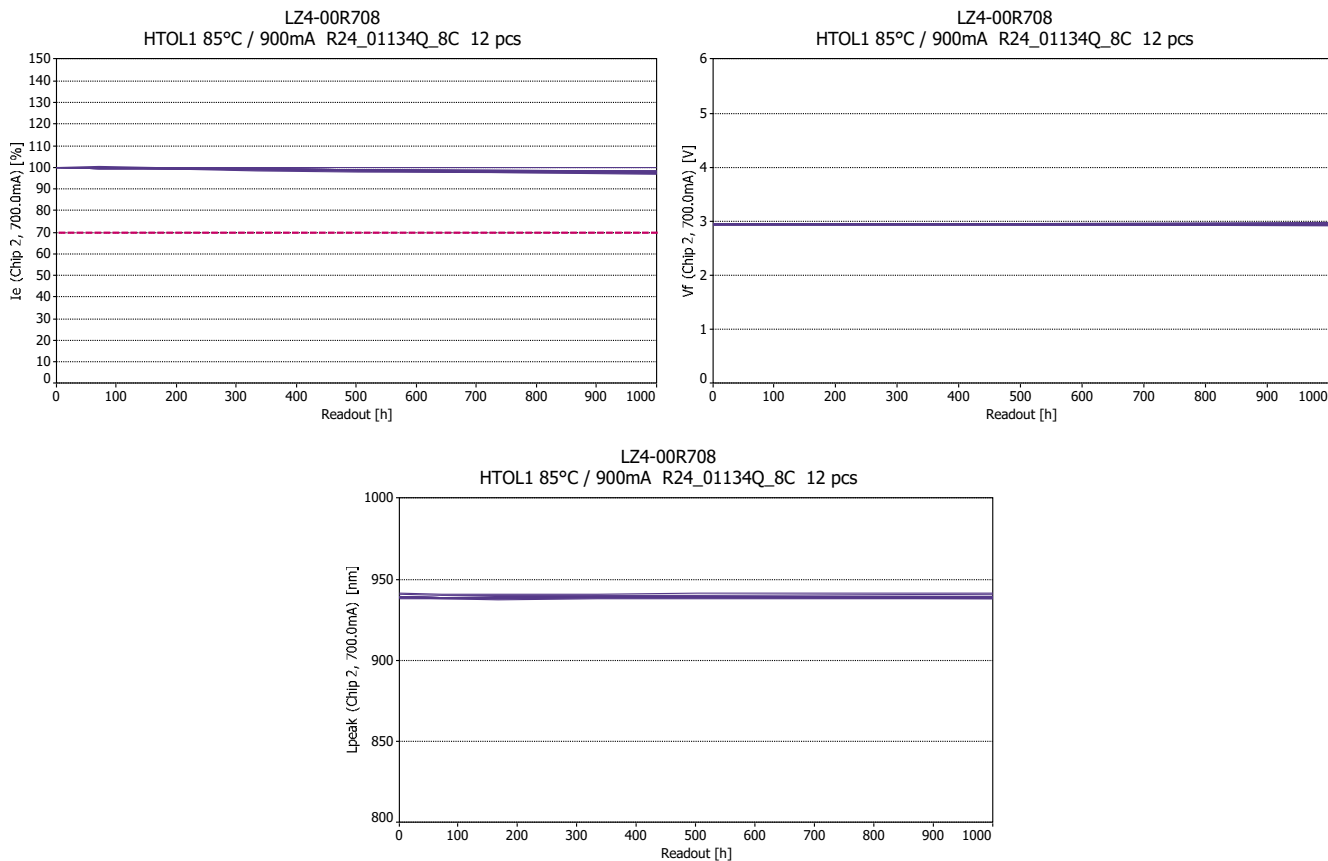
Lot A – Chip 4



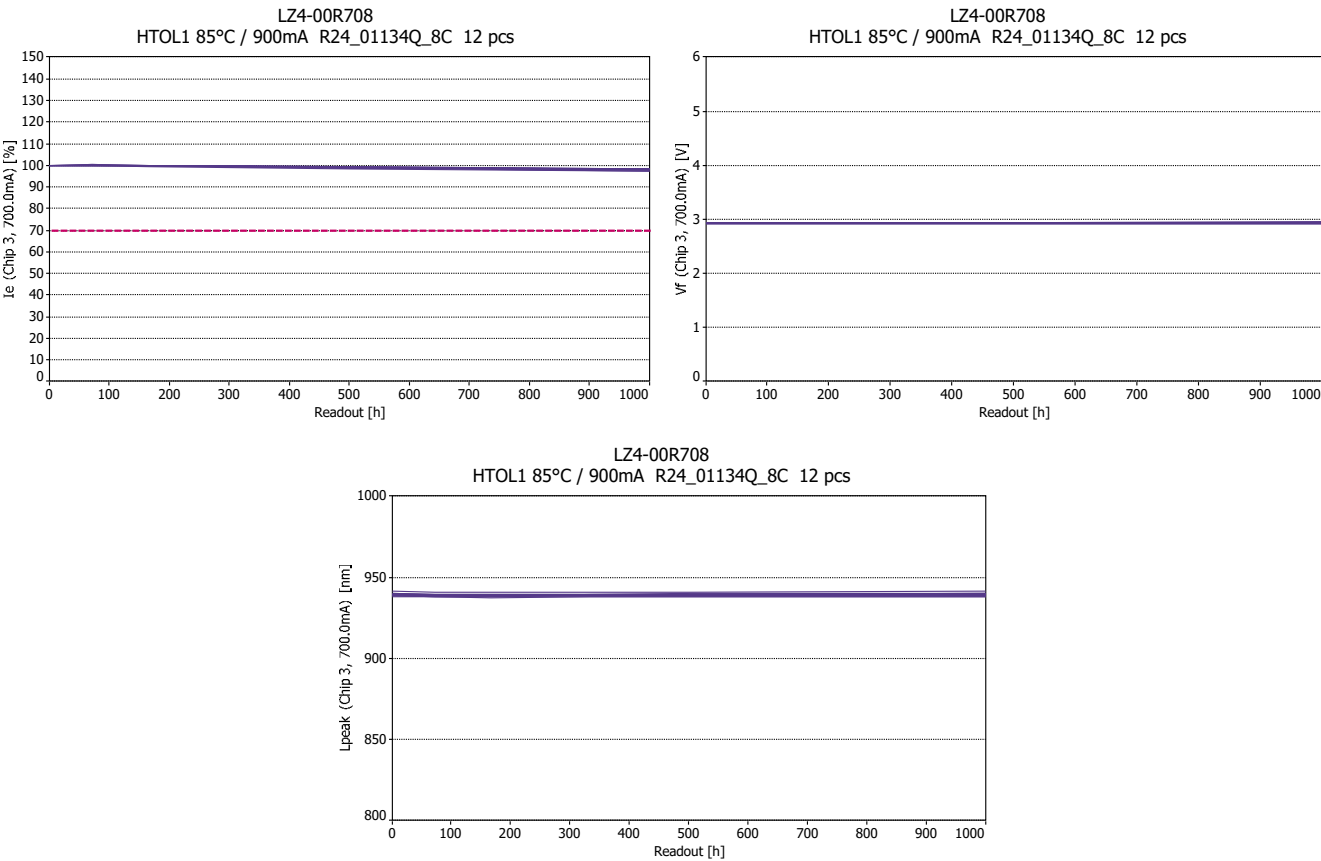
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Lot B – Chip 1



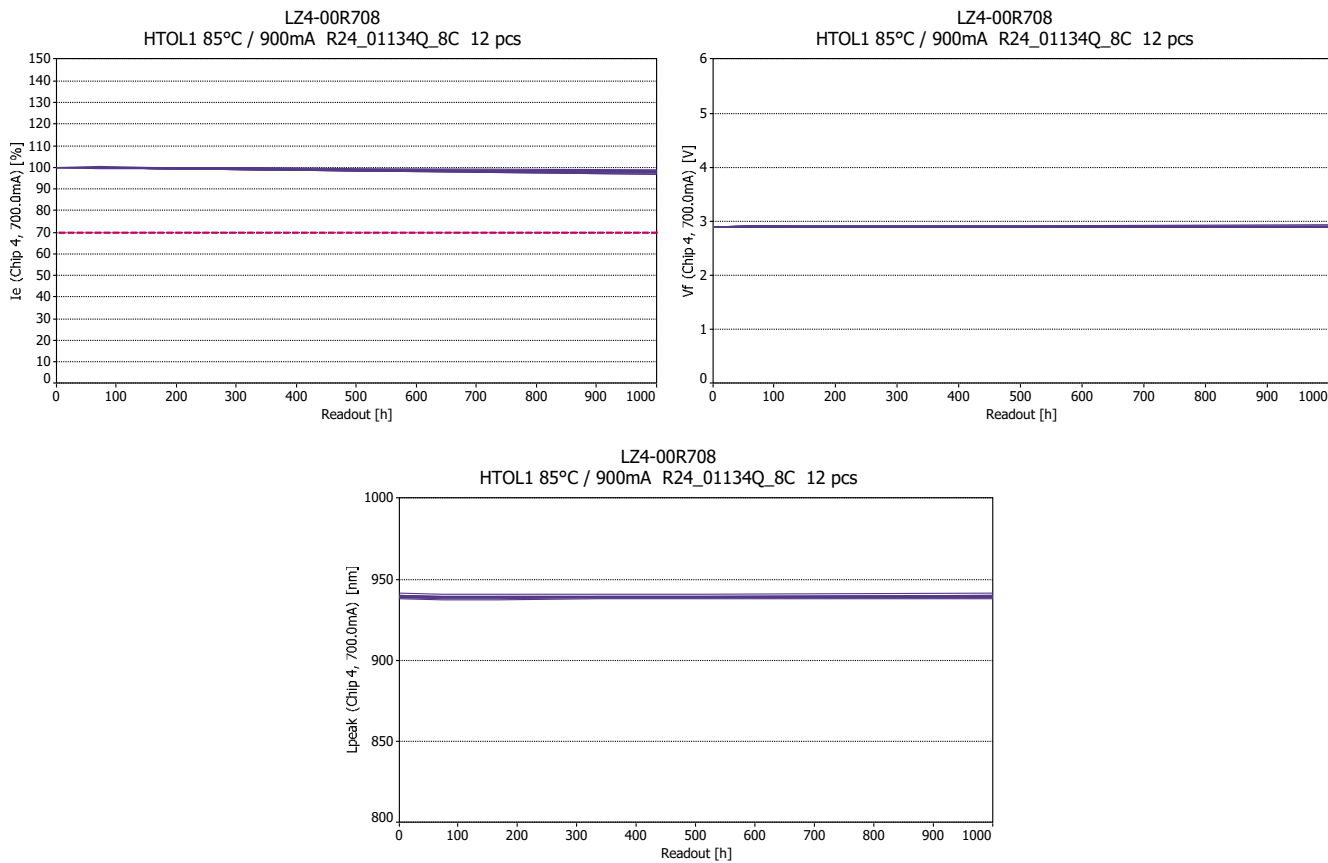
Lot B – Chip 2



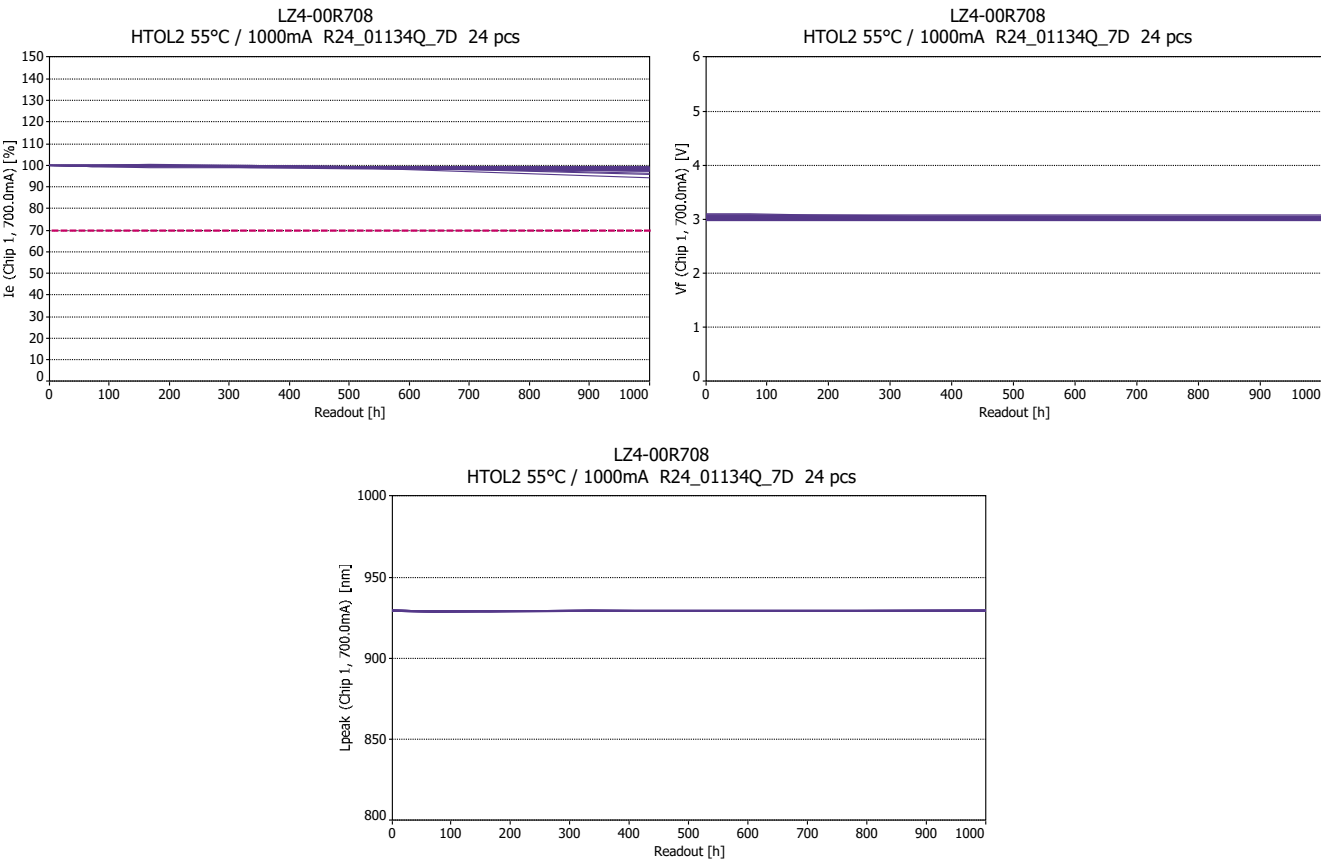
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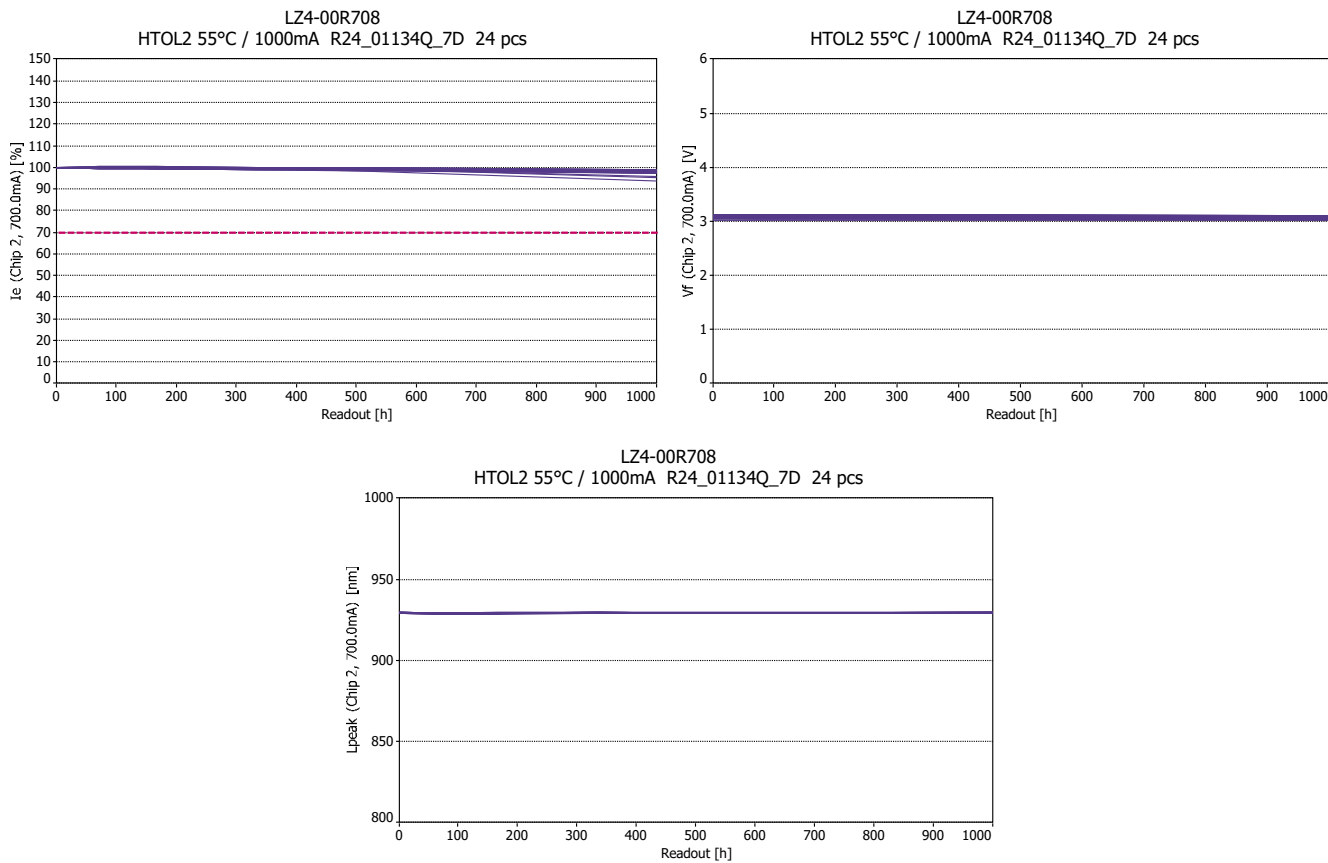
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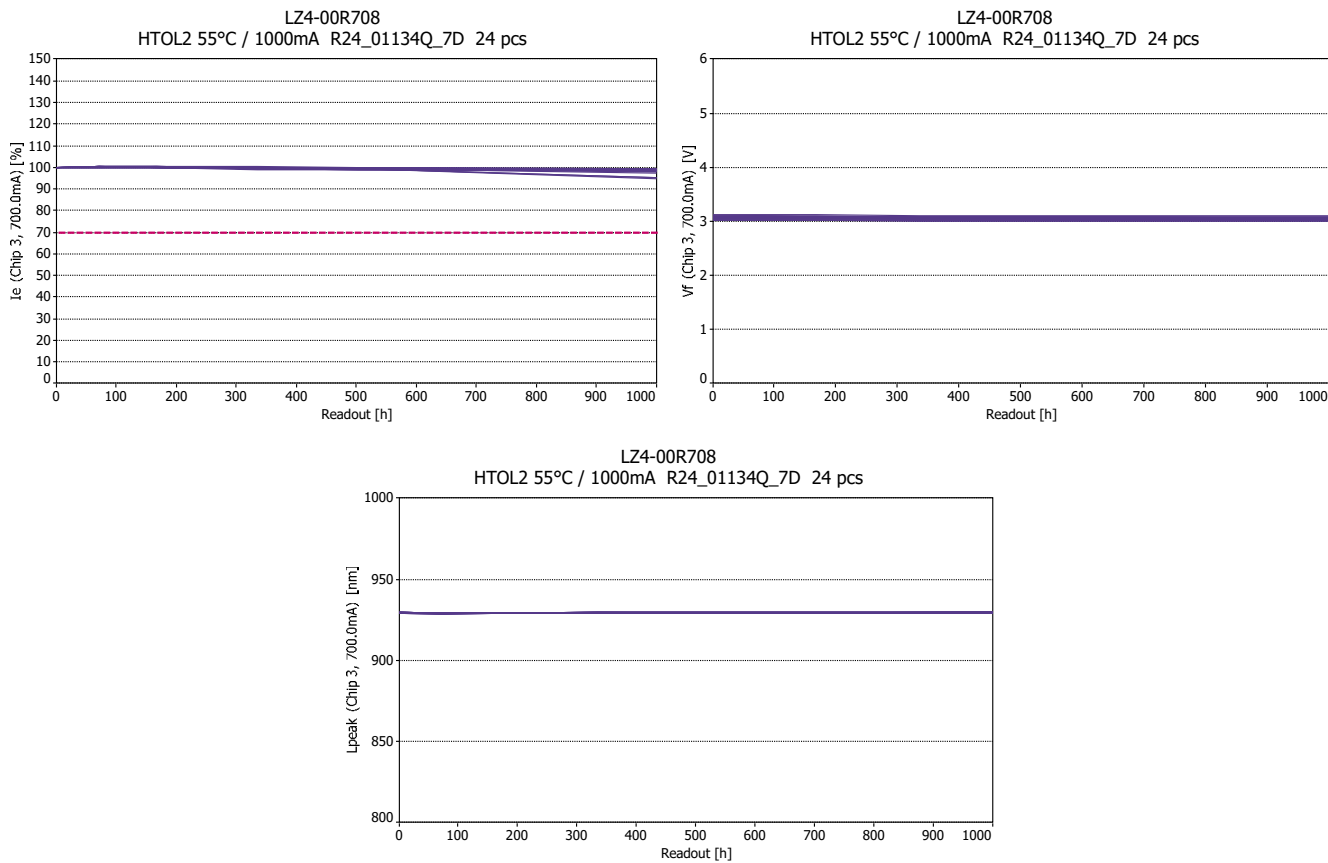
HTOL2 55°C/1000mA
Lot A – Chip 1



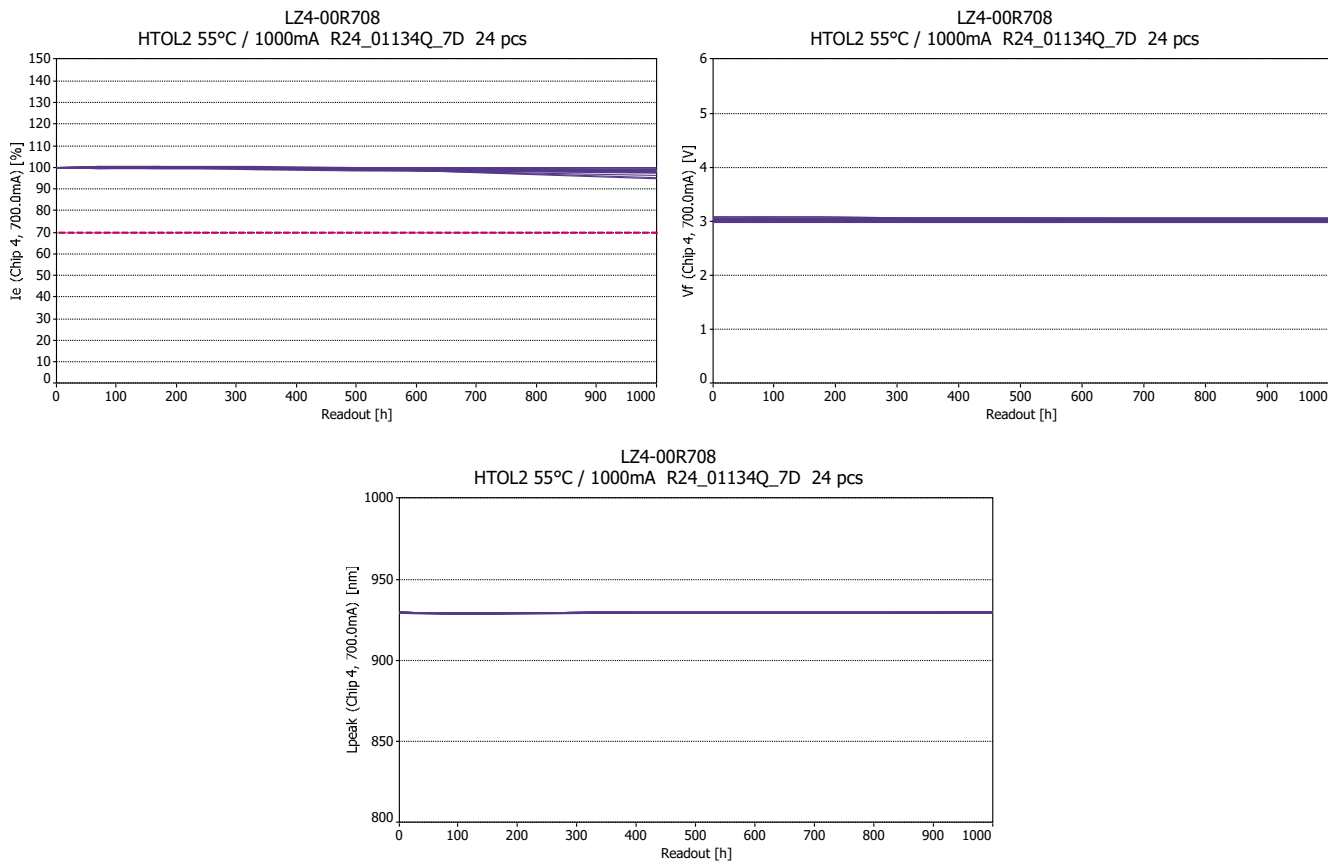
Lot A – Chip 2



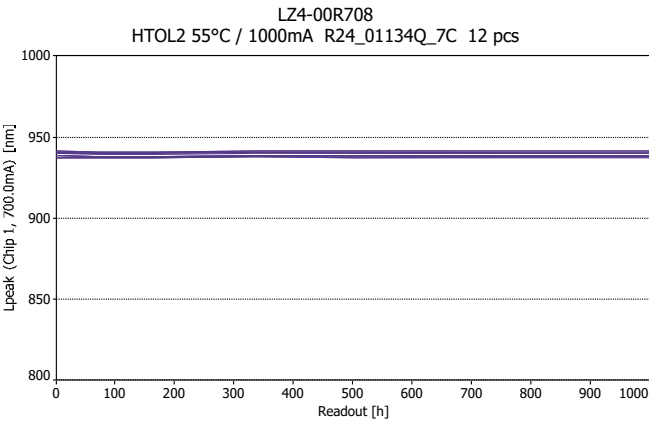
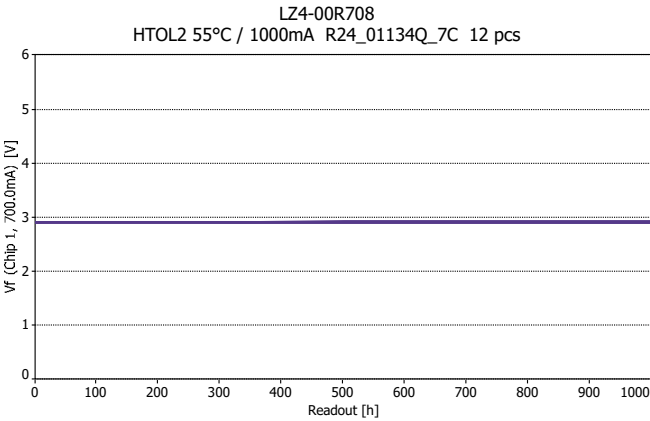
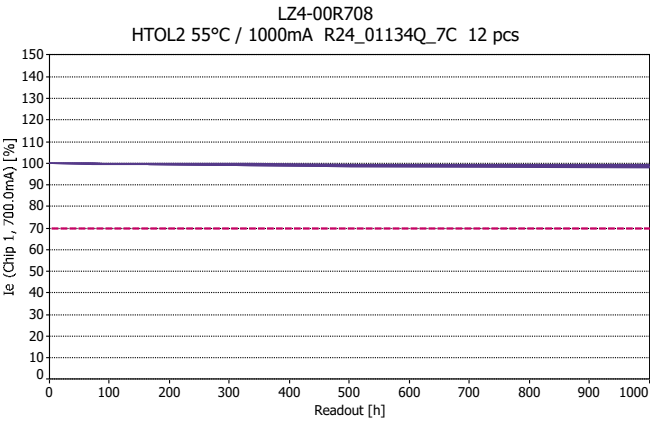
Lot A – Chip 3



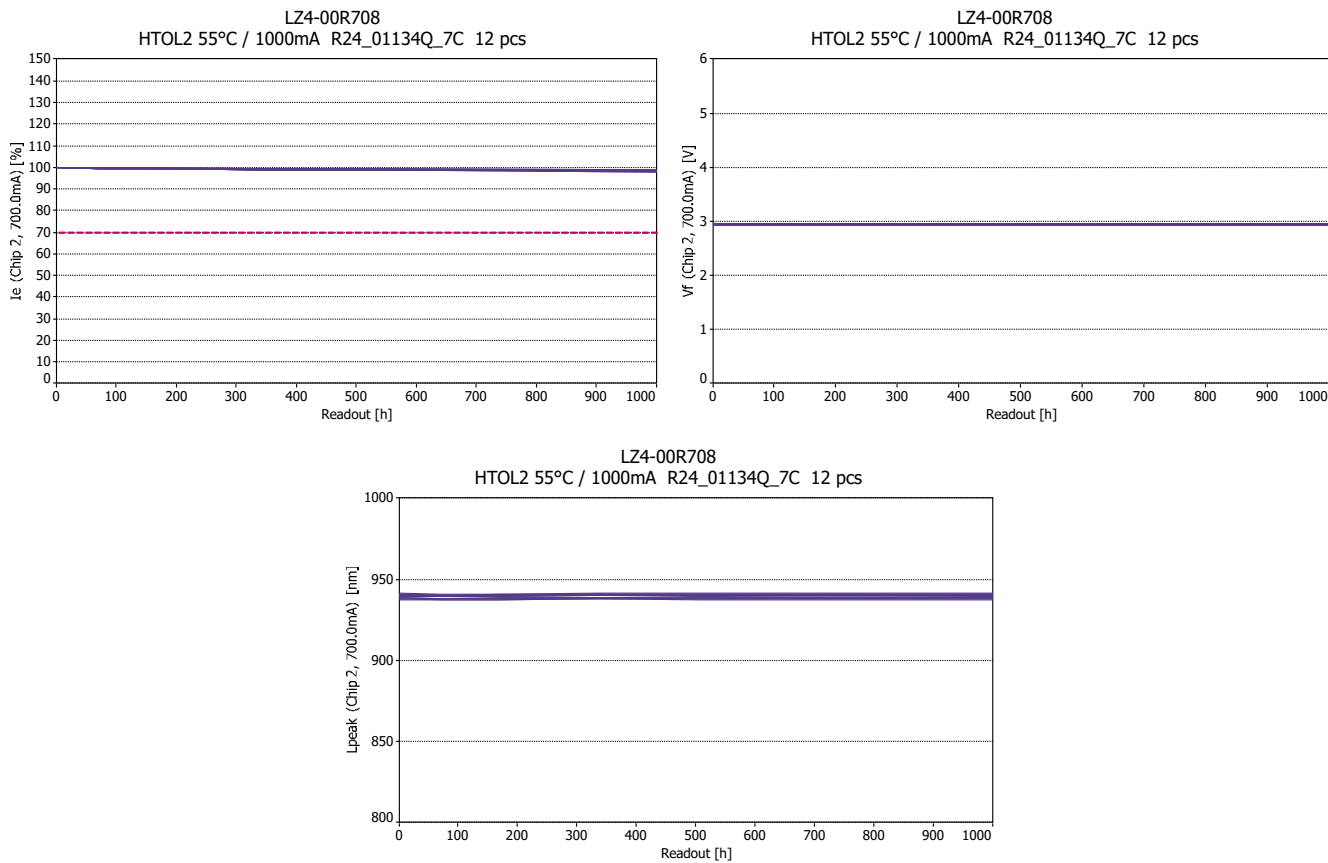
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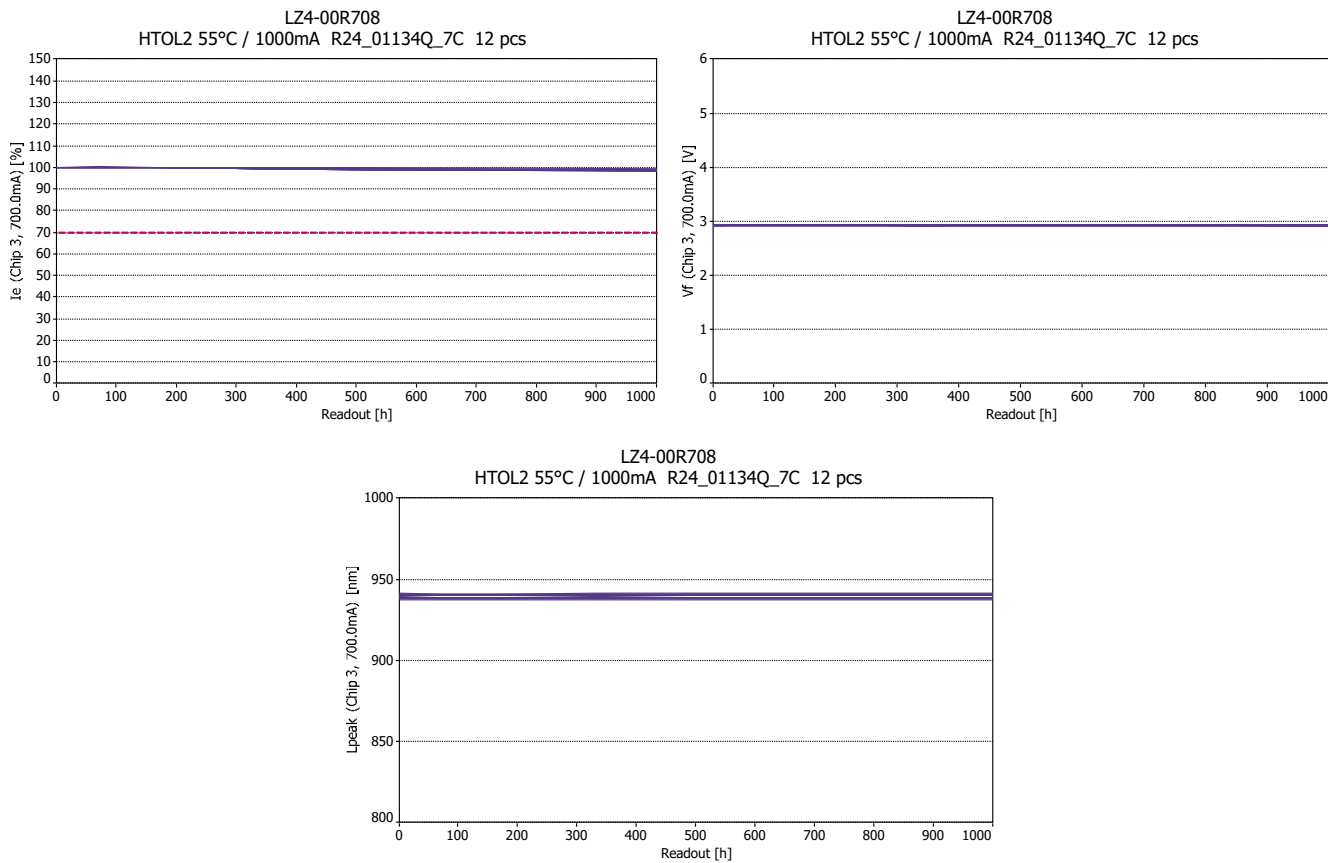
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Lot B – Chip 1



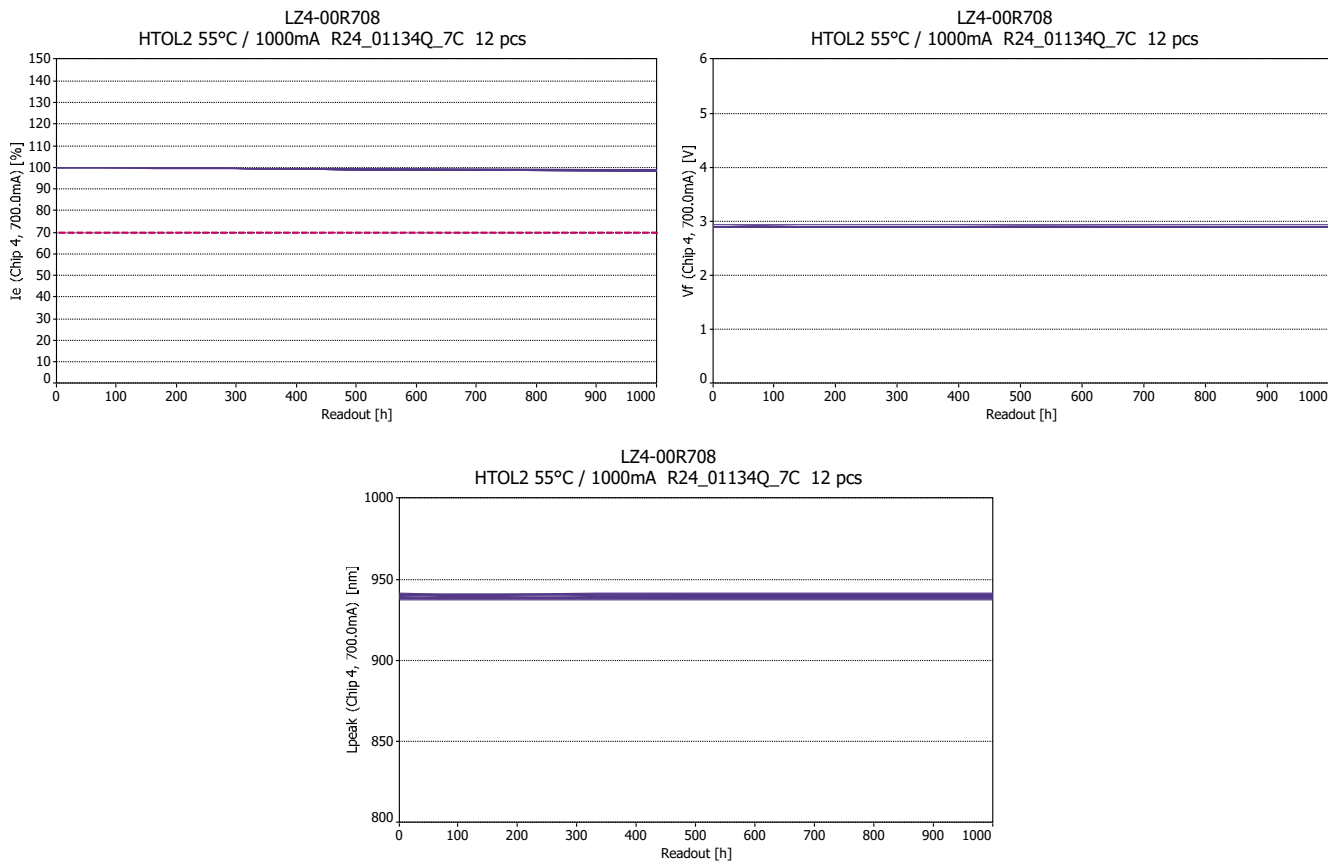
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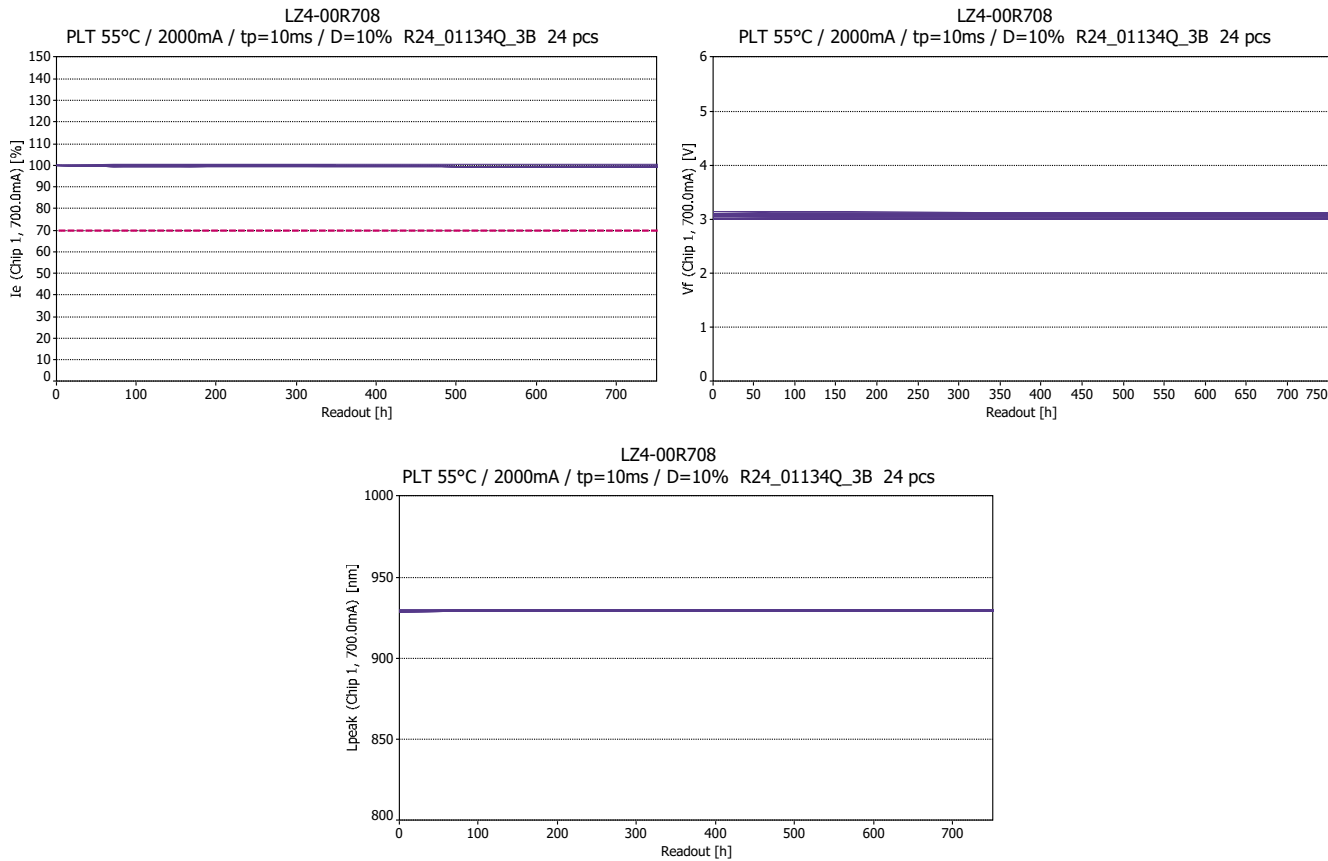
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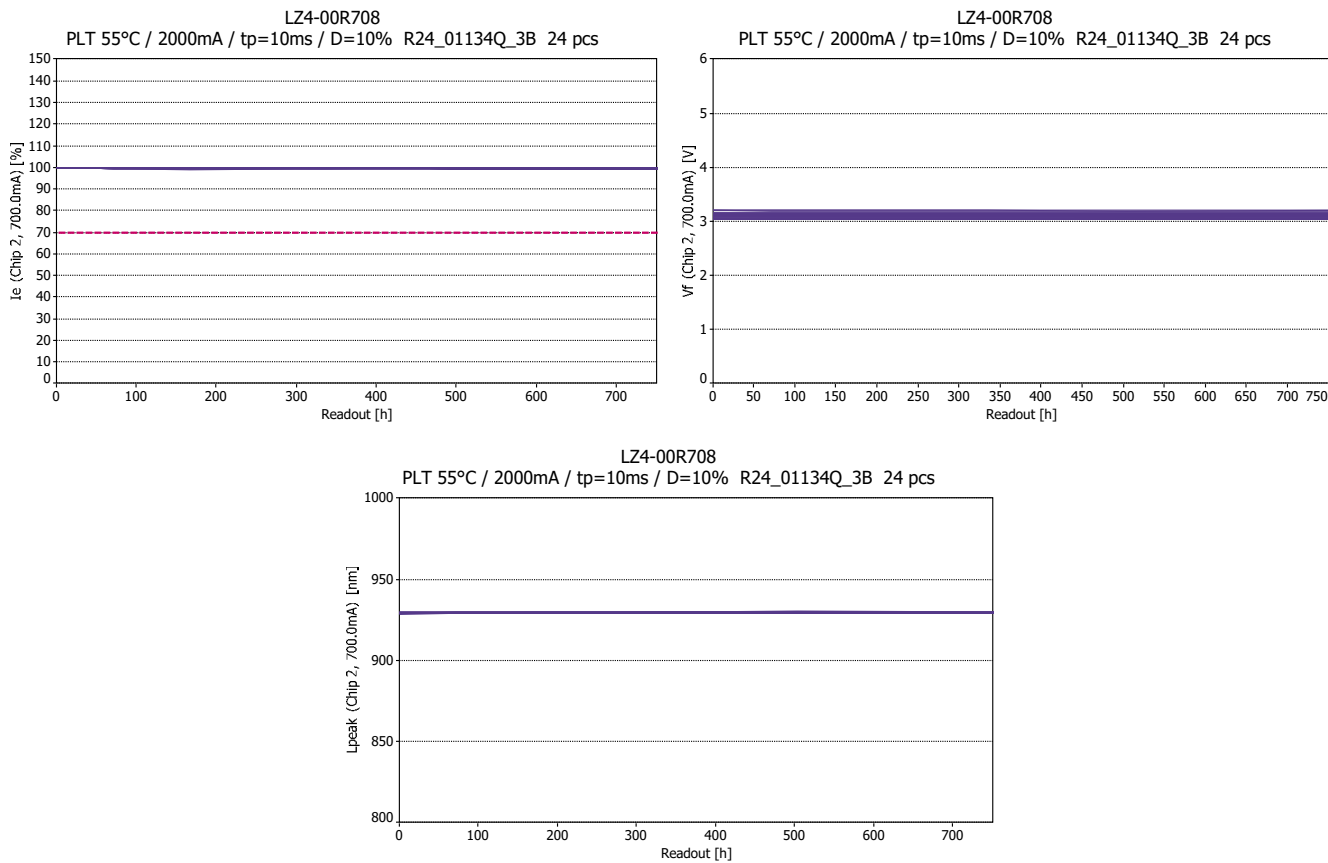
Lot B – Chip 4



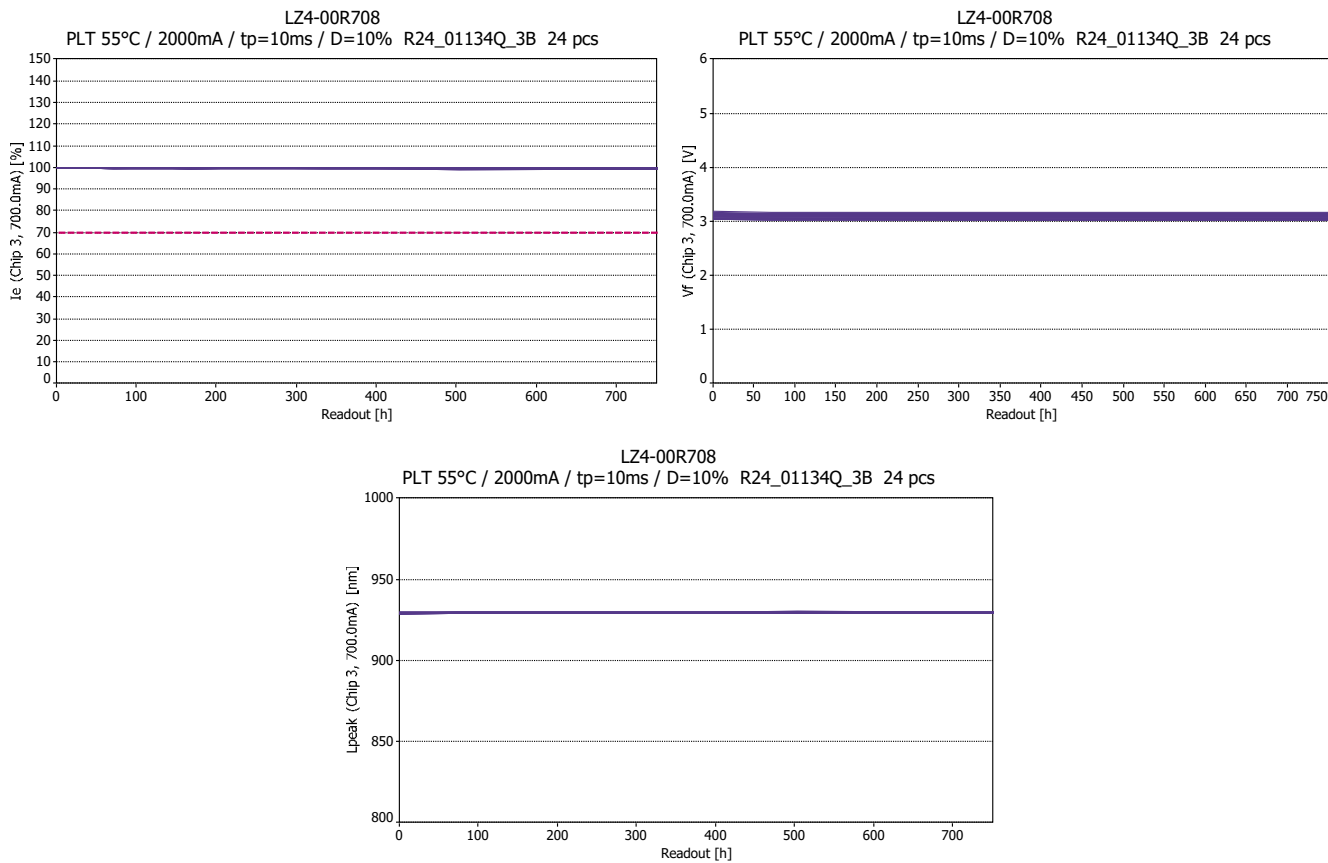
PLT 55°C/2000mA; tp=10ms; D=10%
Lot A – Chip 1



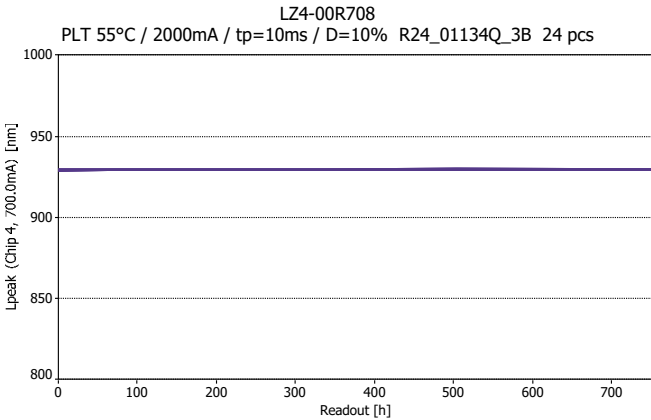
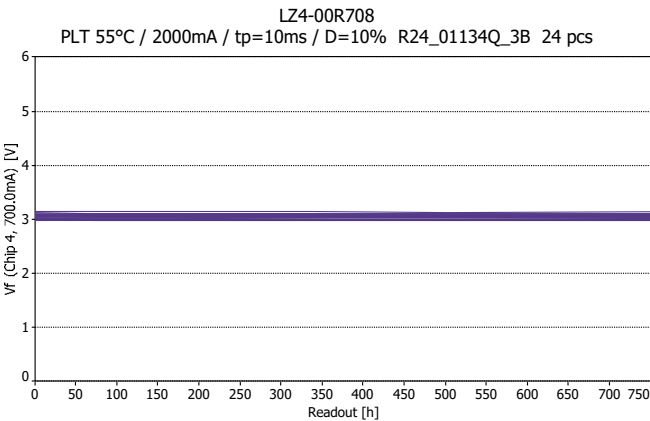
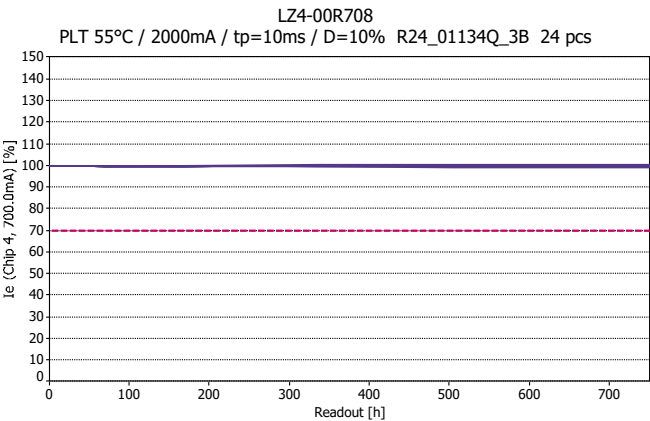
Lot A – Chip 2



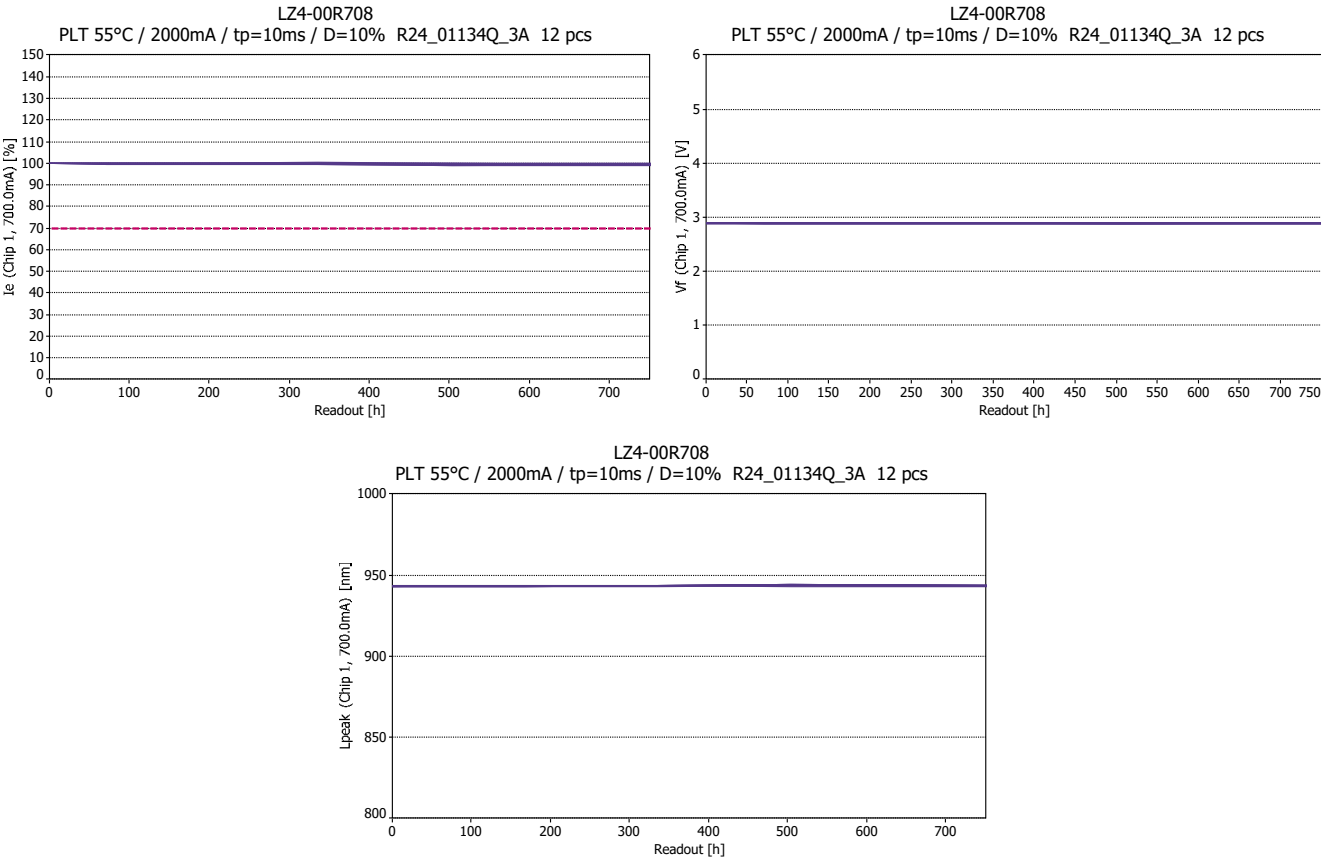
Lot A – Chip 3



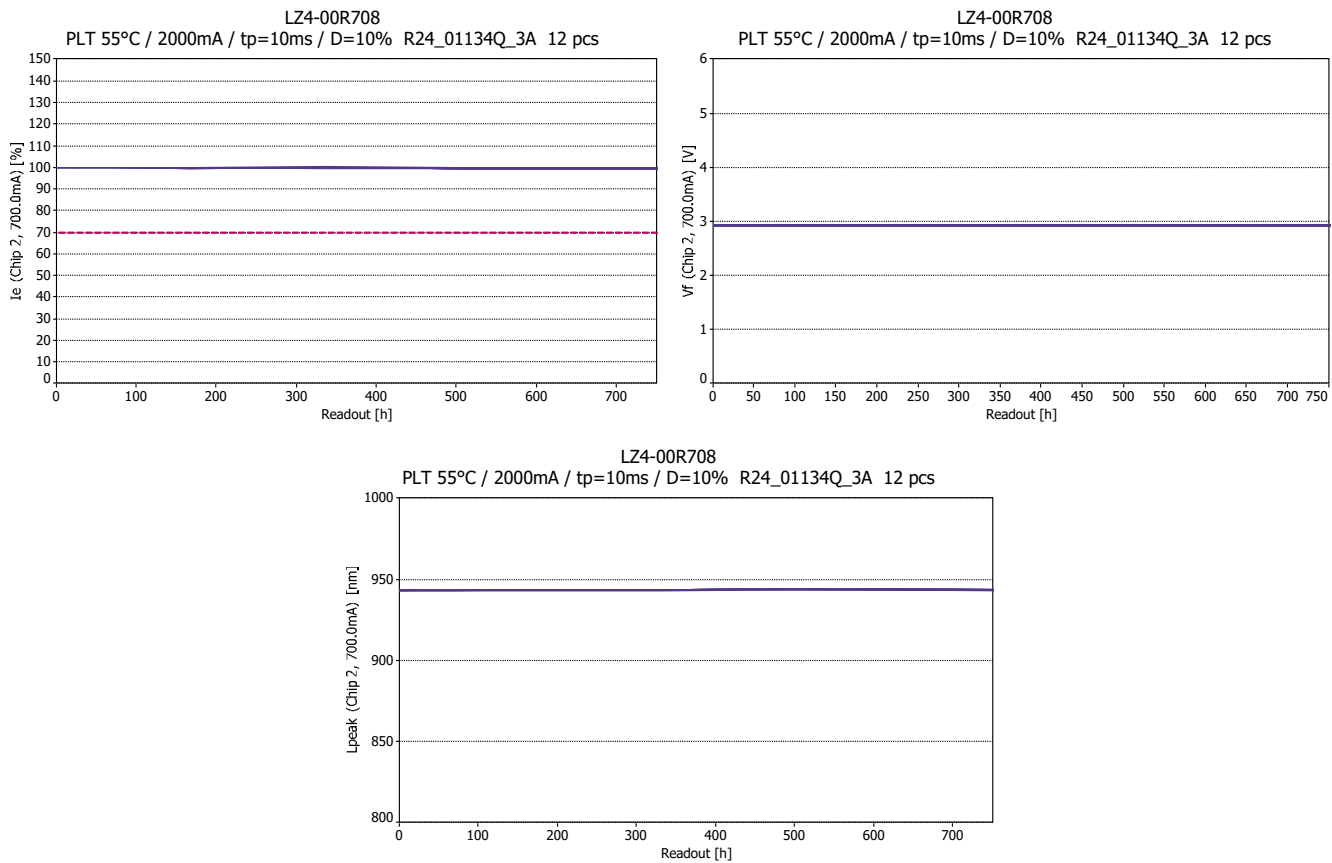
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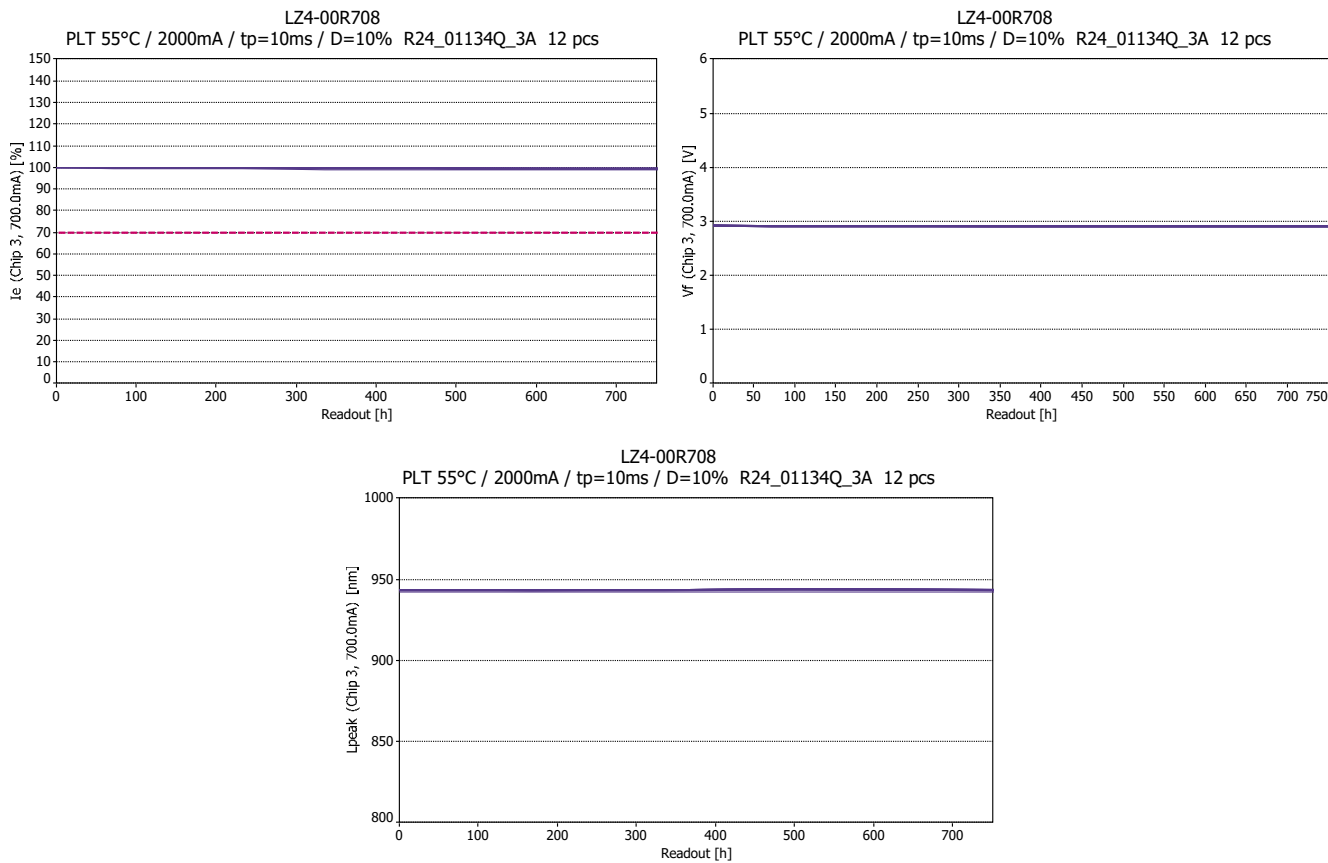
PLT 55°C/2000mA; tp=10ms; D=10%
Lot B – Chip 1



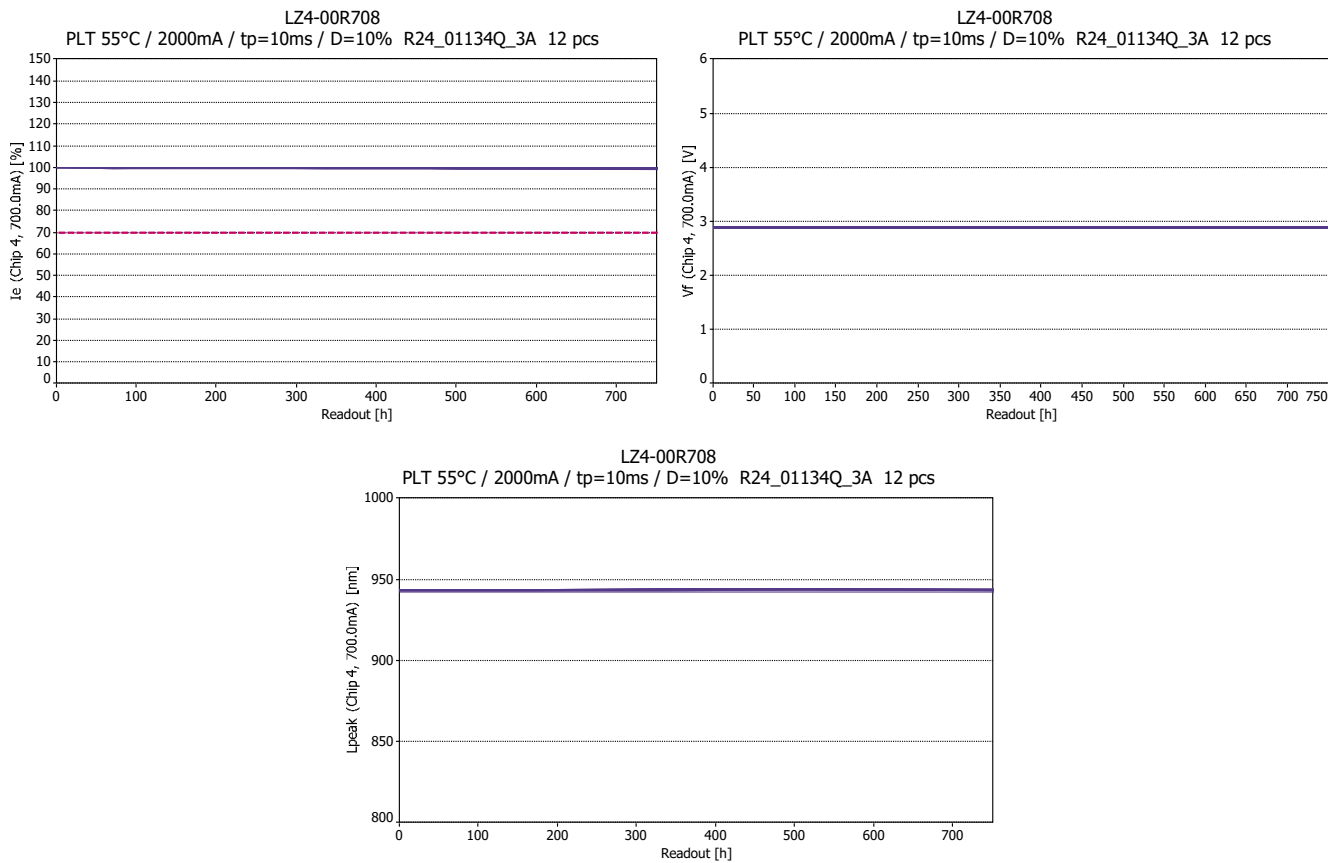
Lot B – Chip 2



Lot B – Chip 3

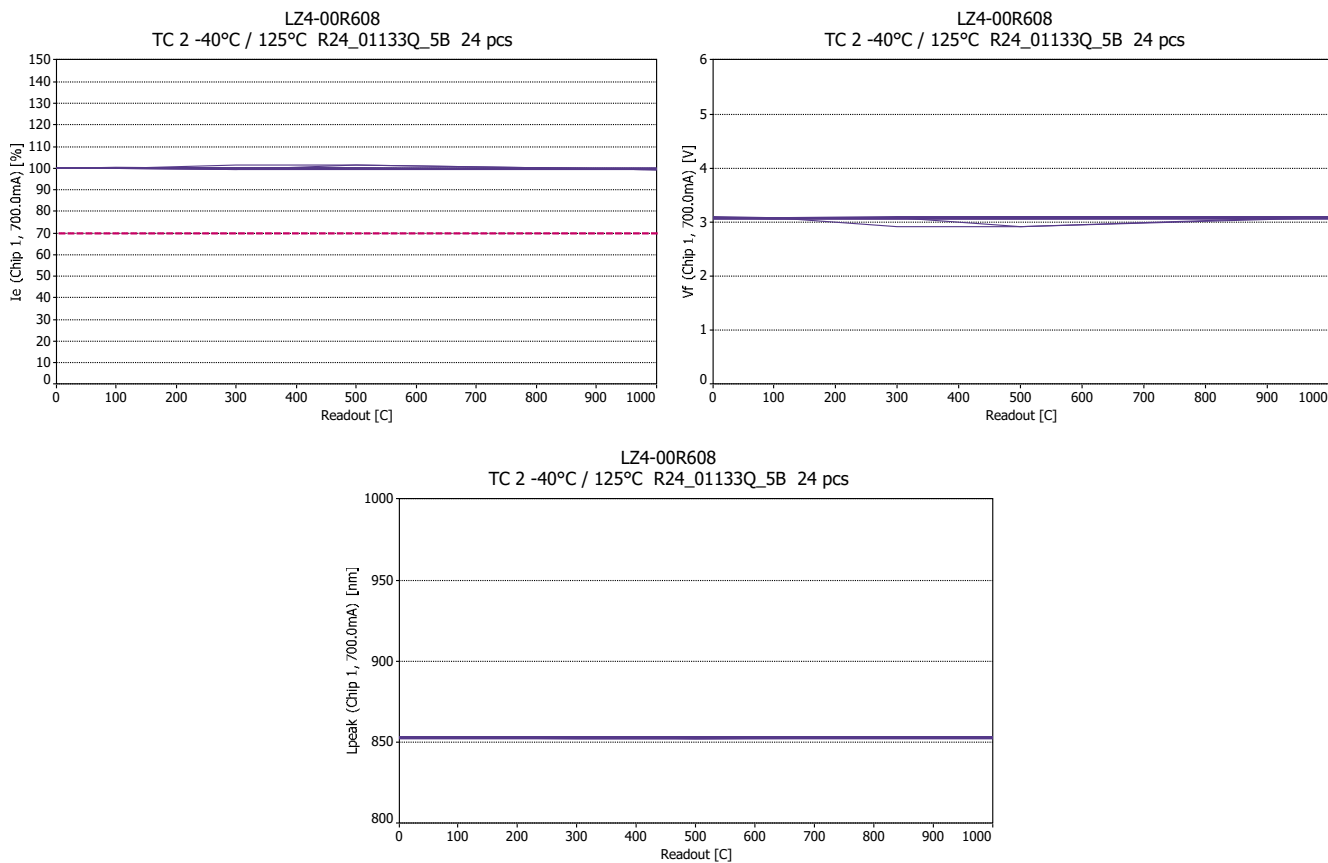


Lot B – Chip 4

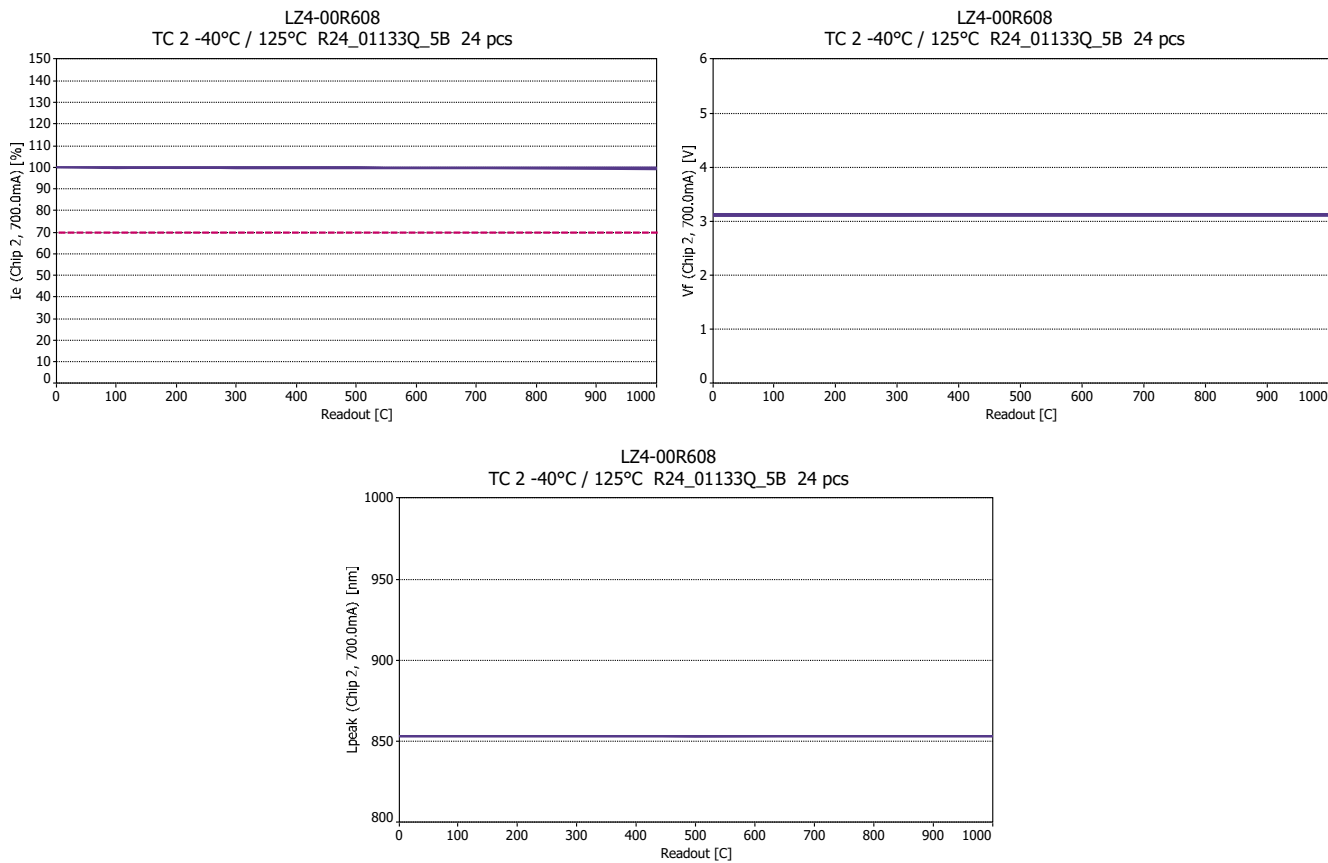


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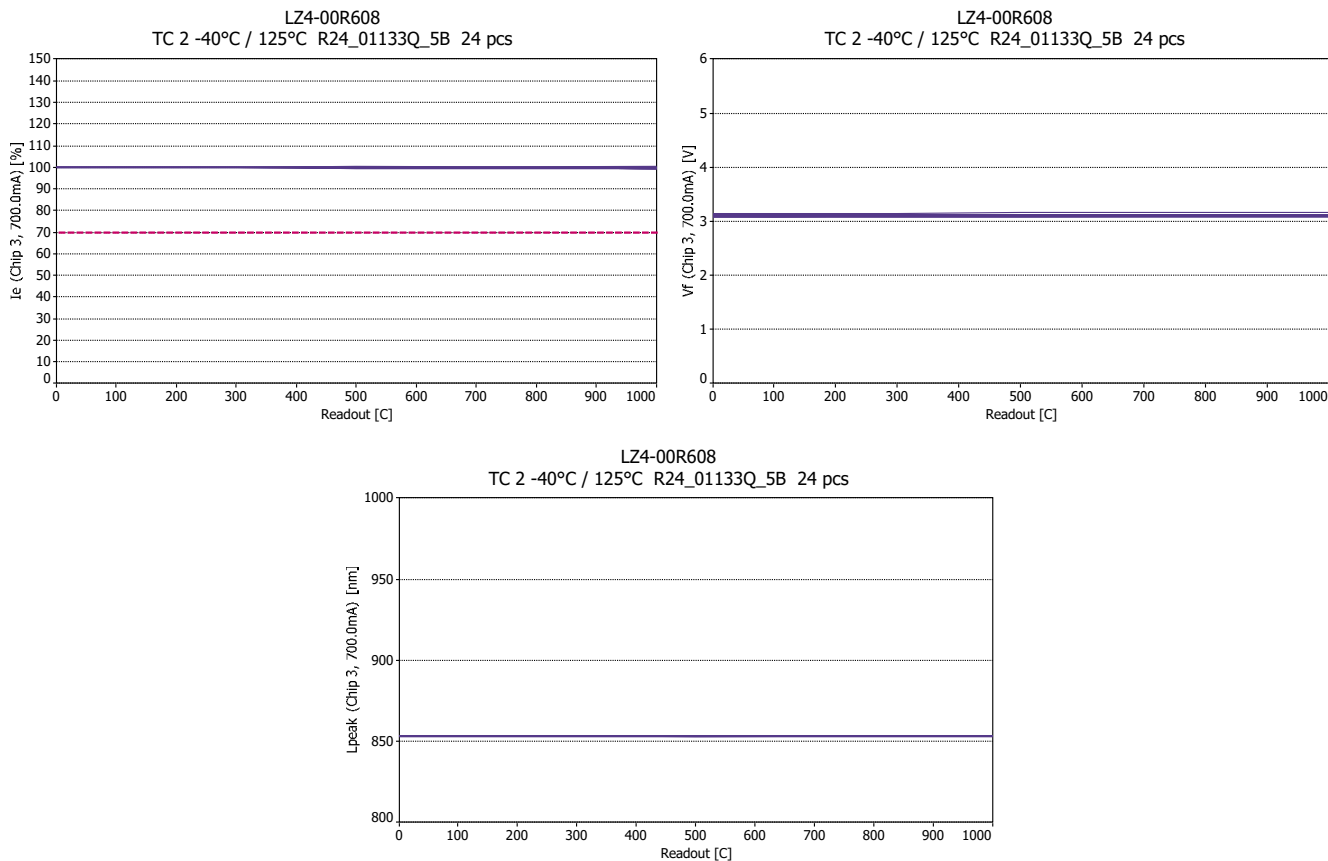
TC -40°C/125°C
Lot A – Chip 1



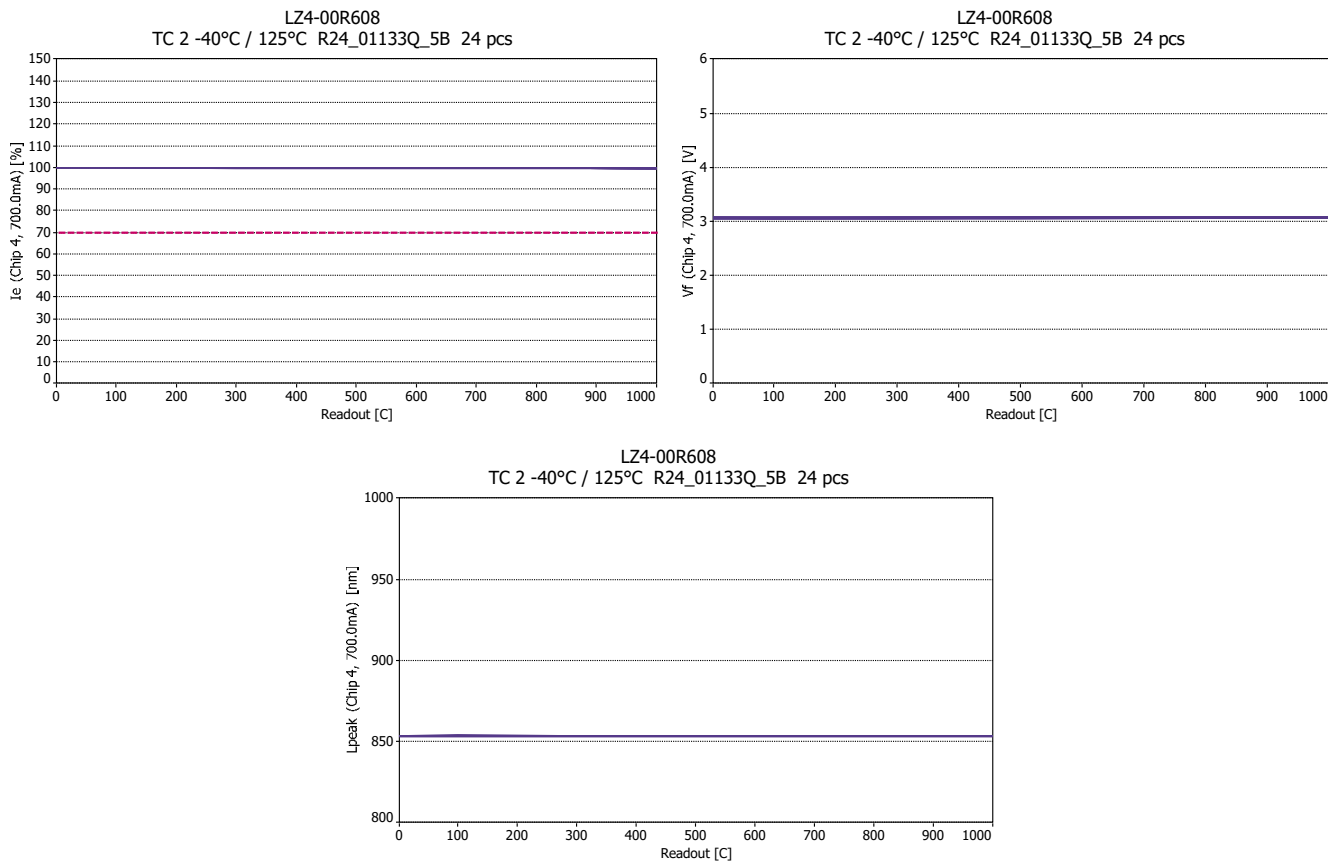
Lot A – Chip 2



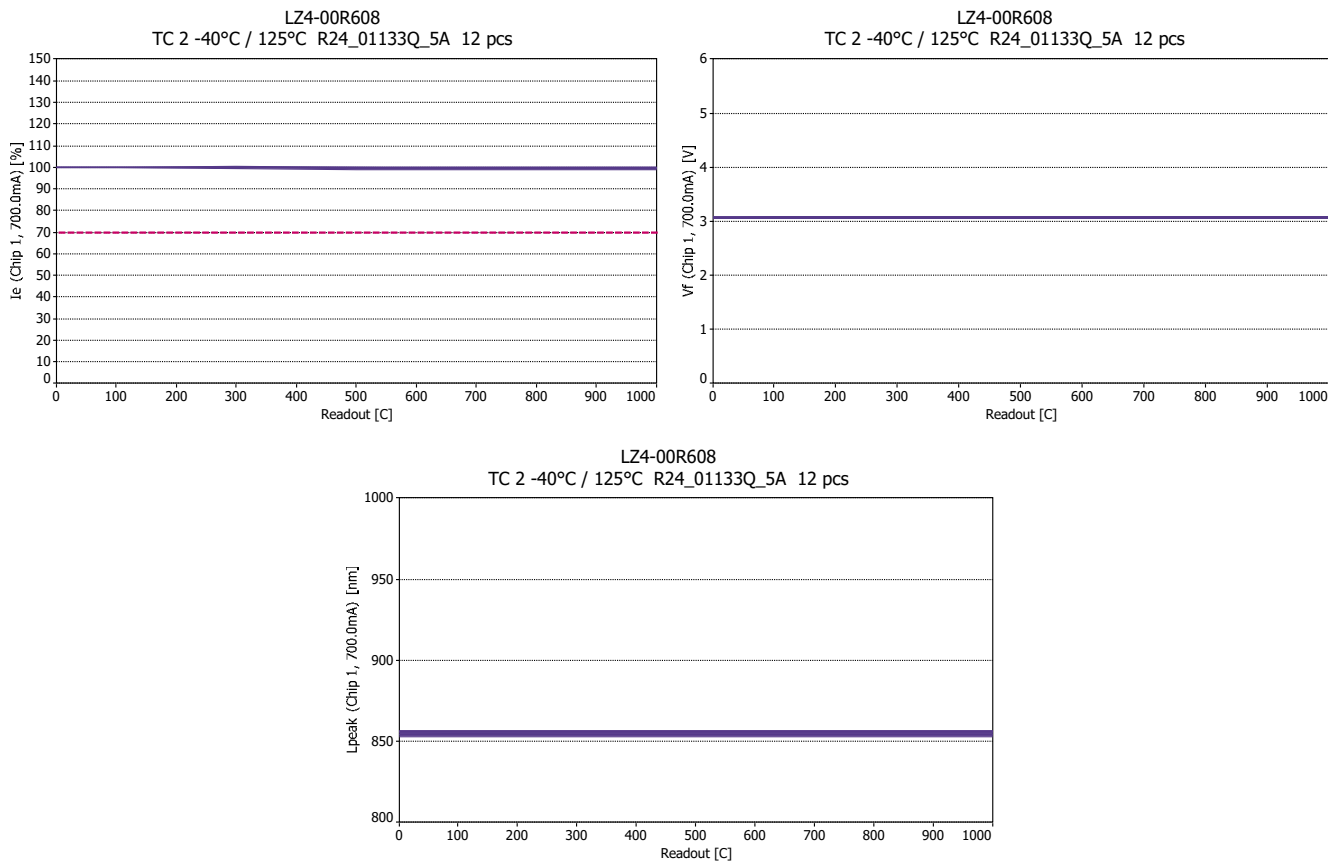
Lot A – Chip 3



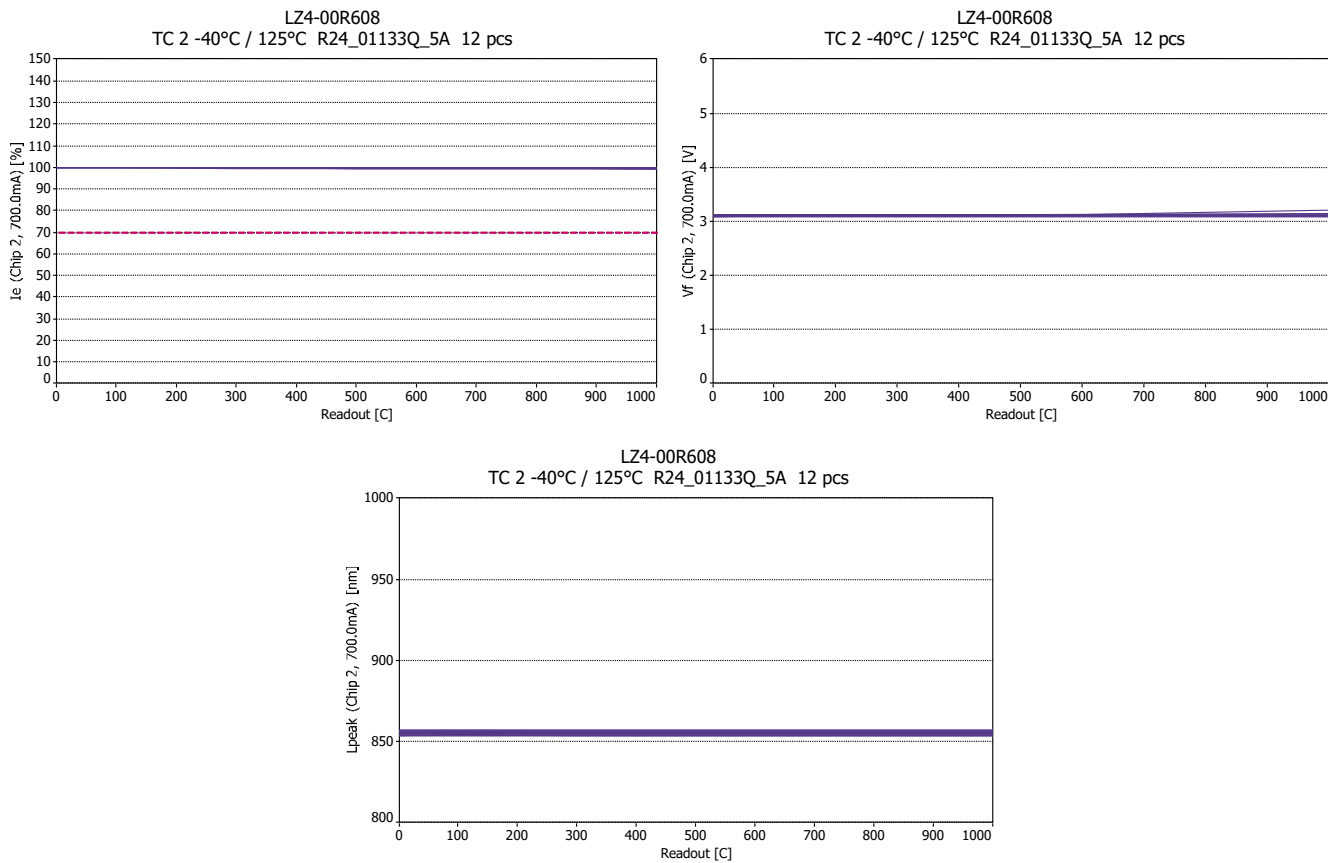
Lot A – Chip 4



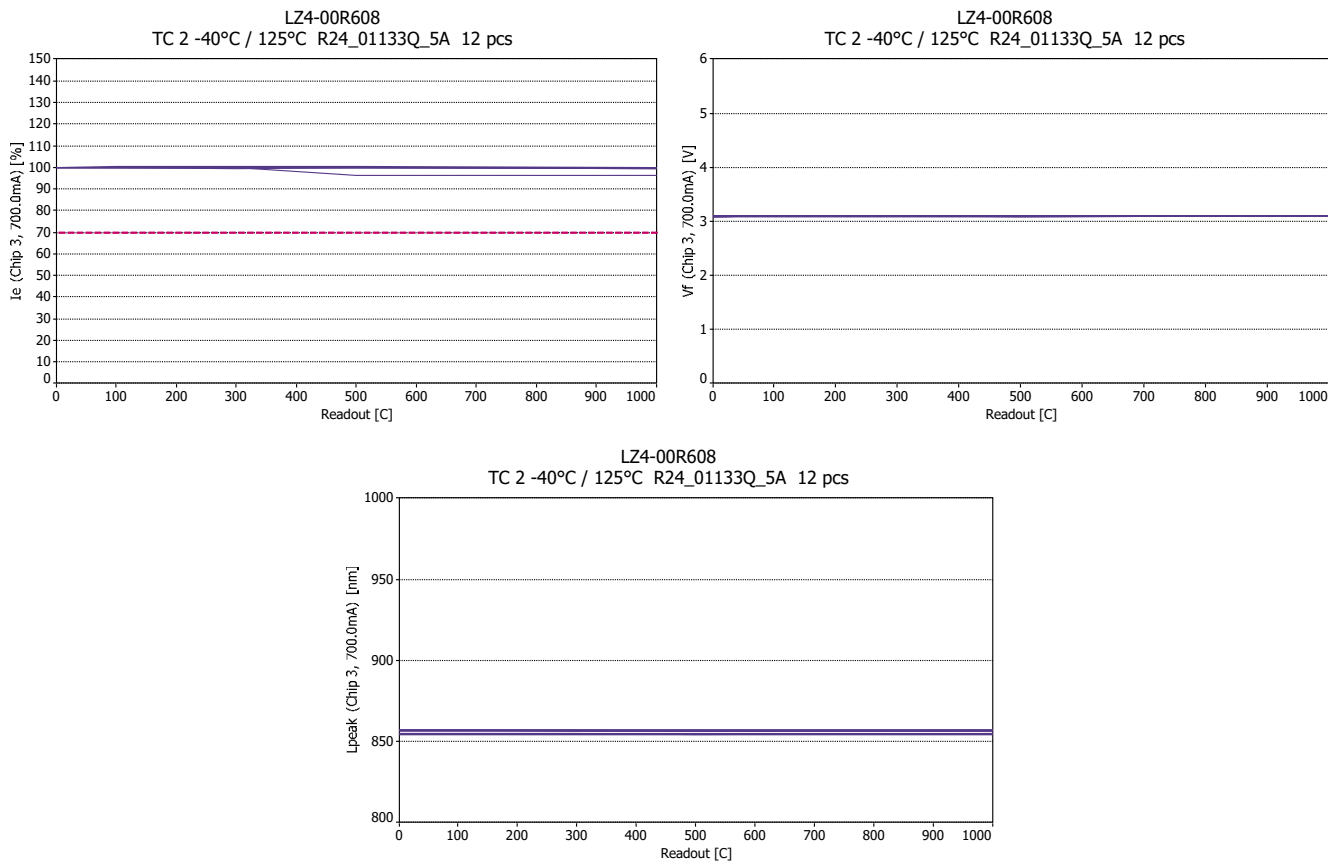
TC -40°C/125°C
Lot B – Chip 1



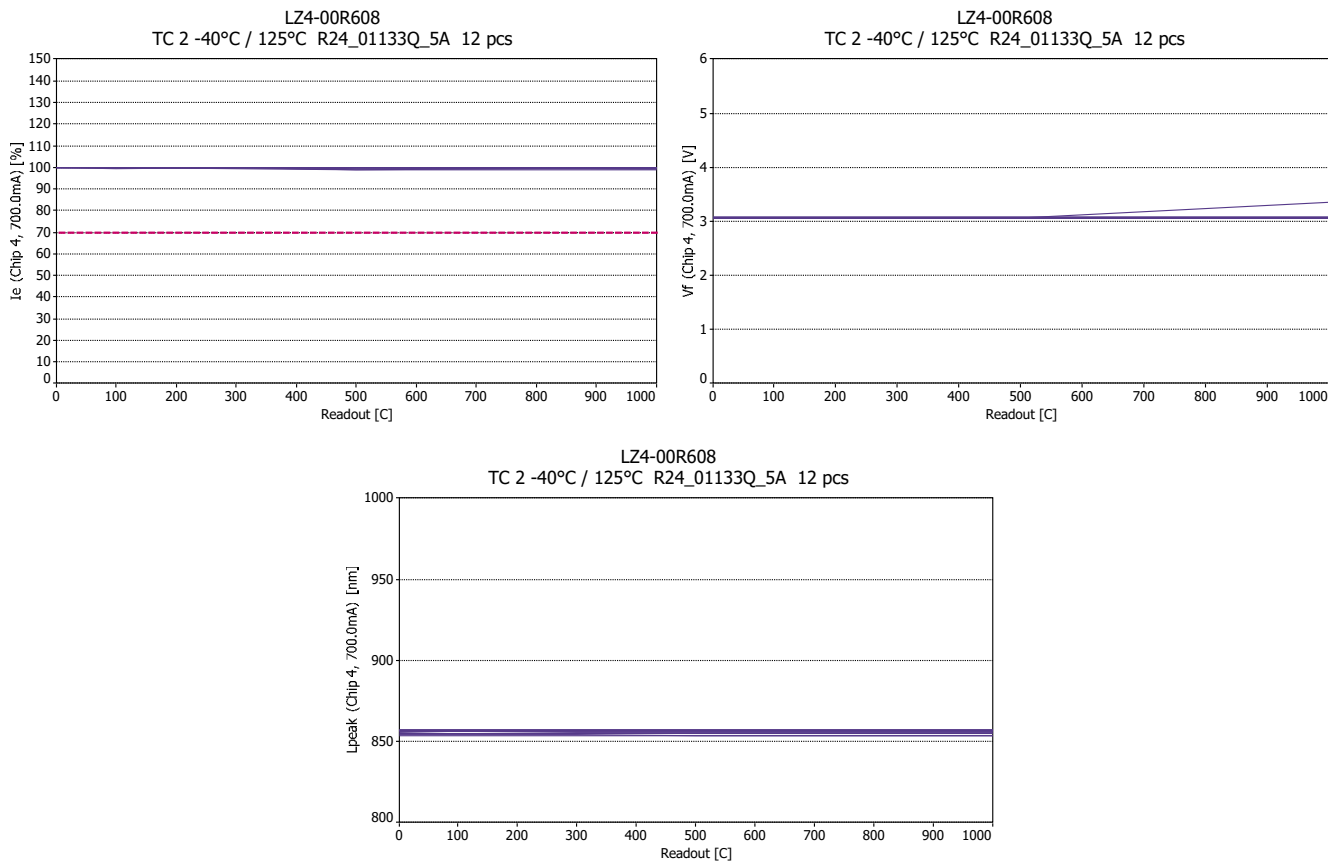
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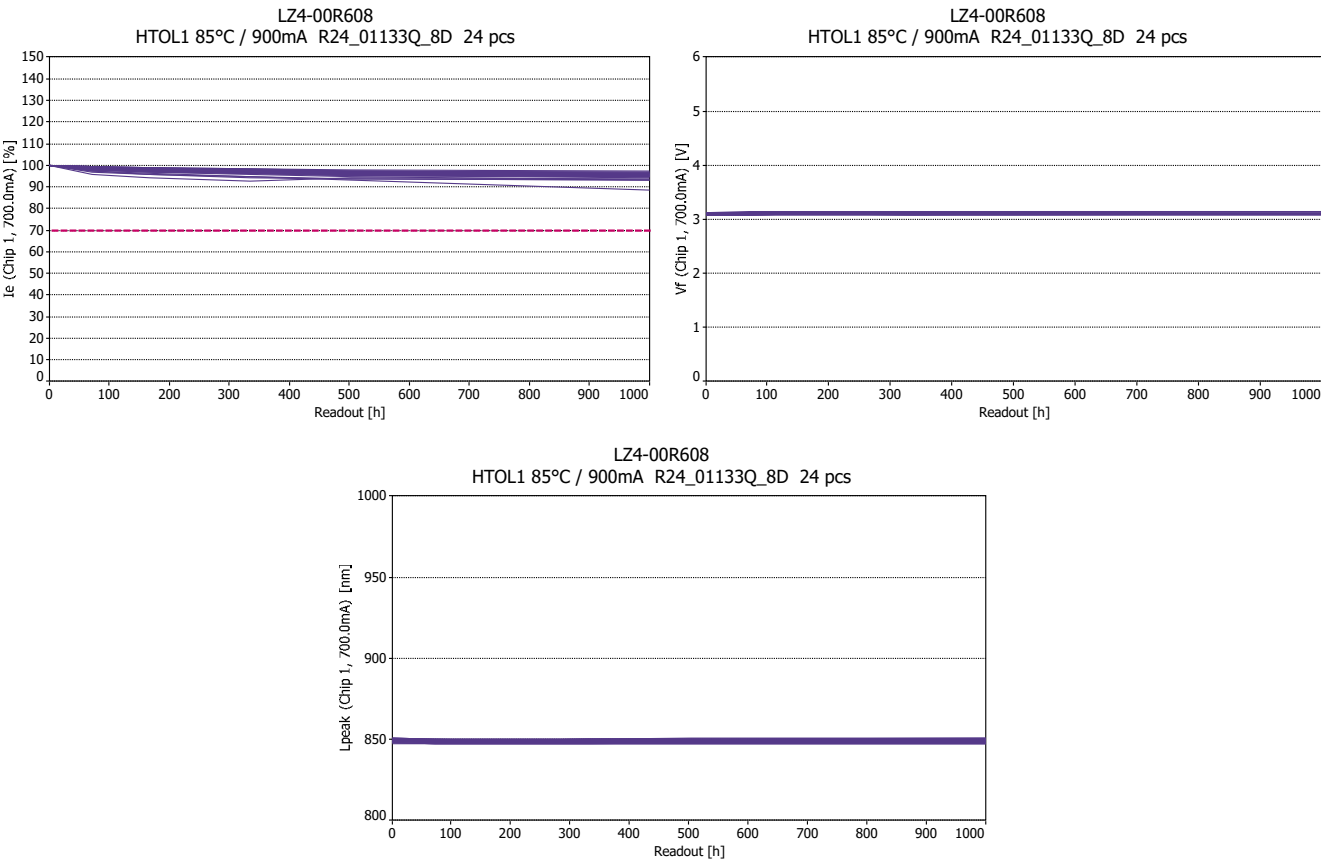
Lot B – Chip 3



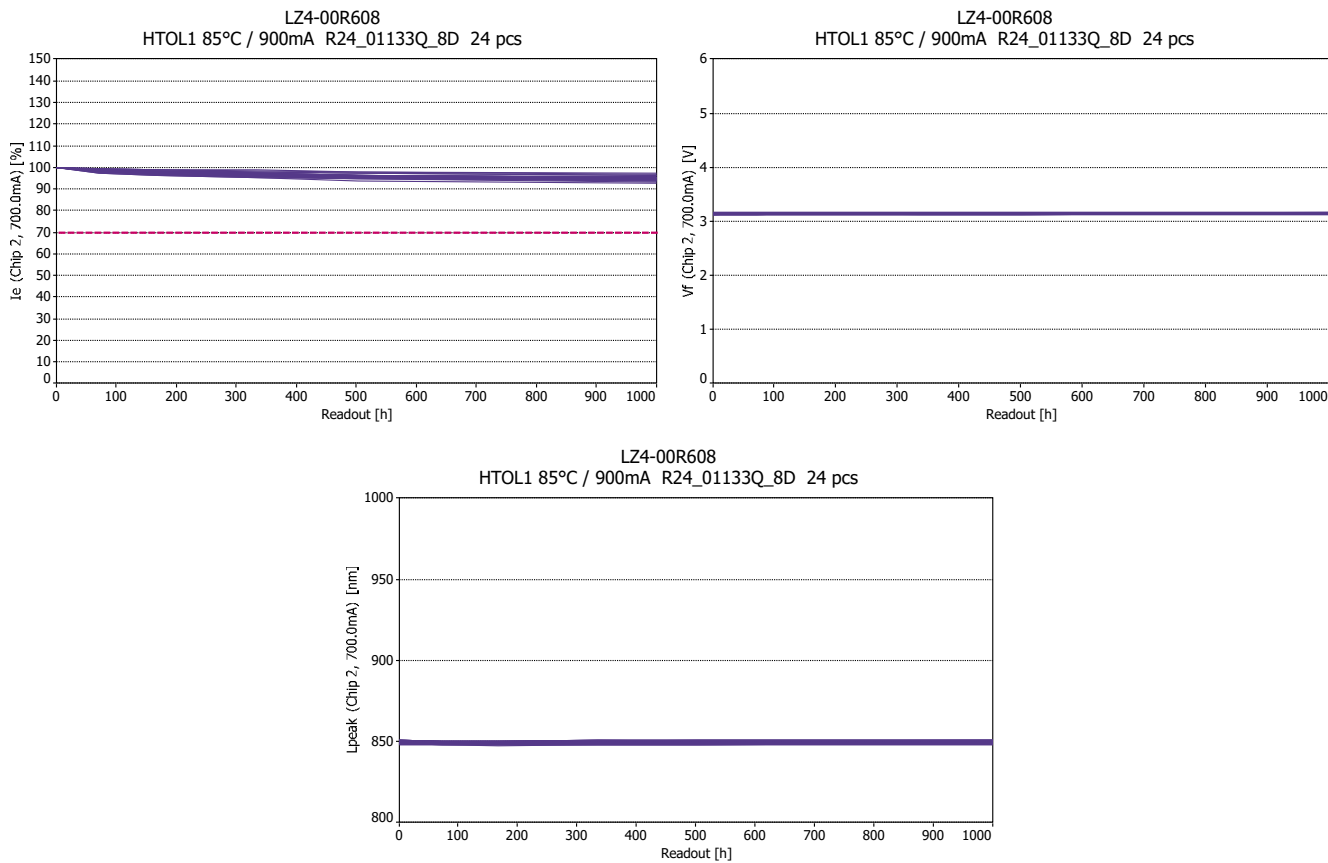
Lot B – Chip 4



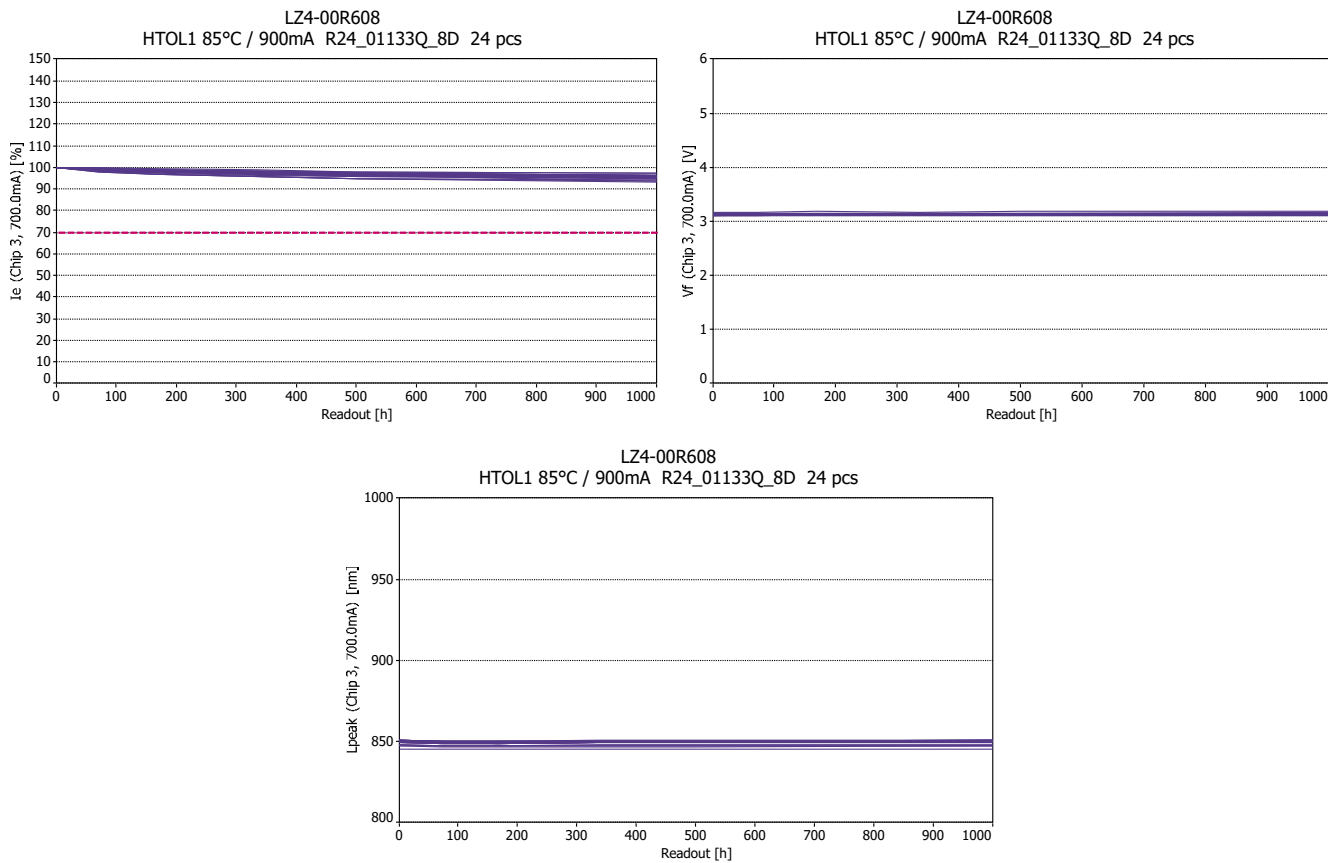
HTOL1 85°C/900mA
Lot A – Chip 1



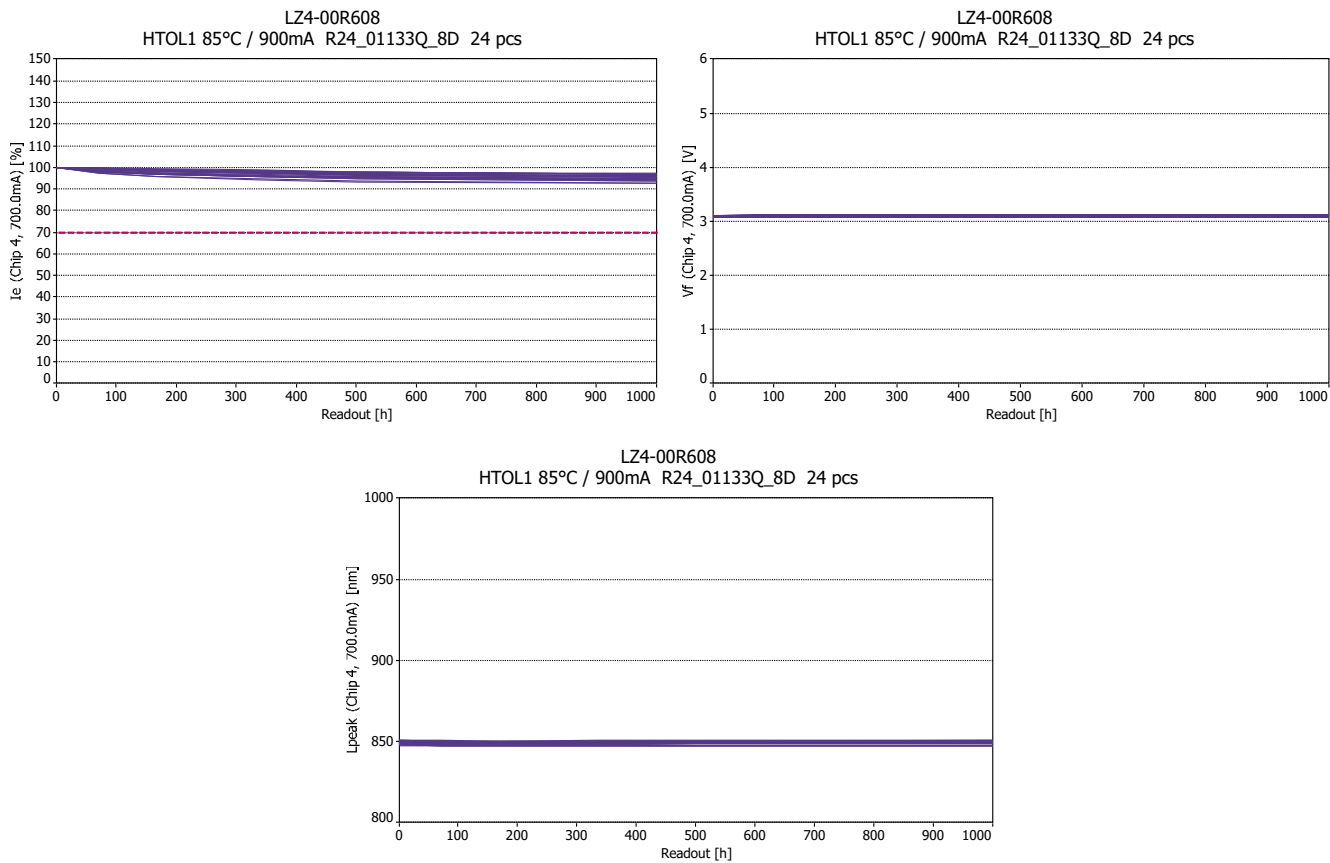
Lot A – Chip 2



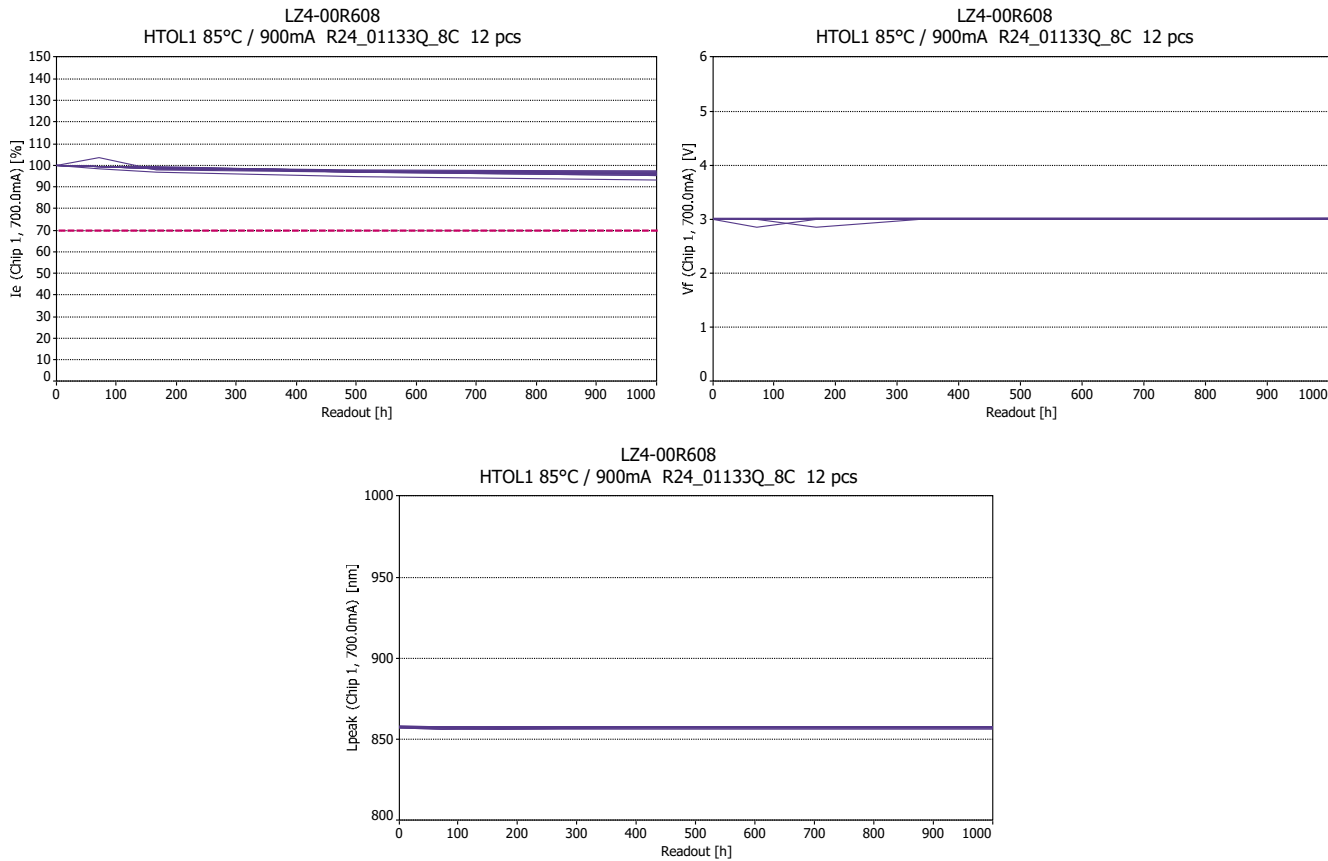
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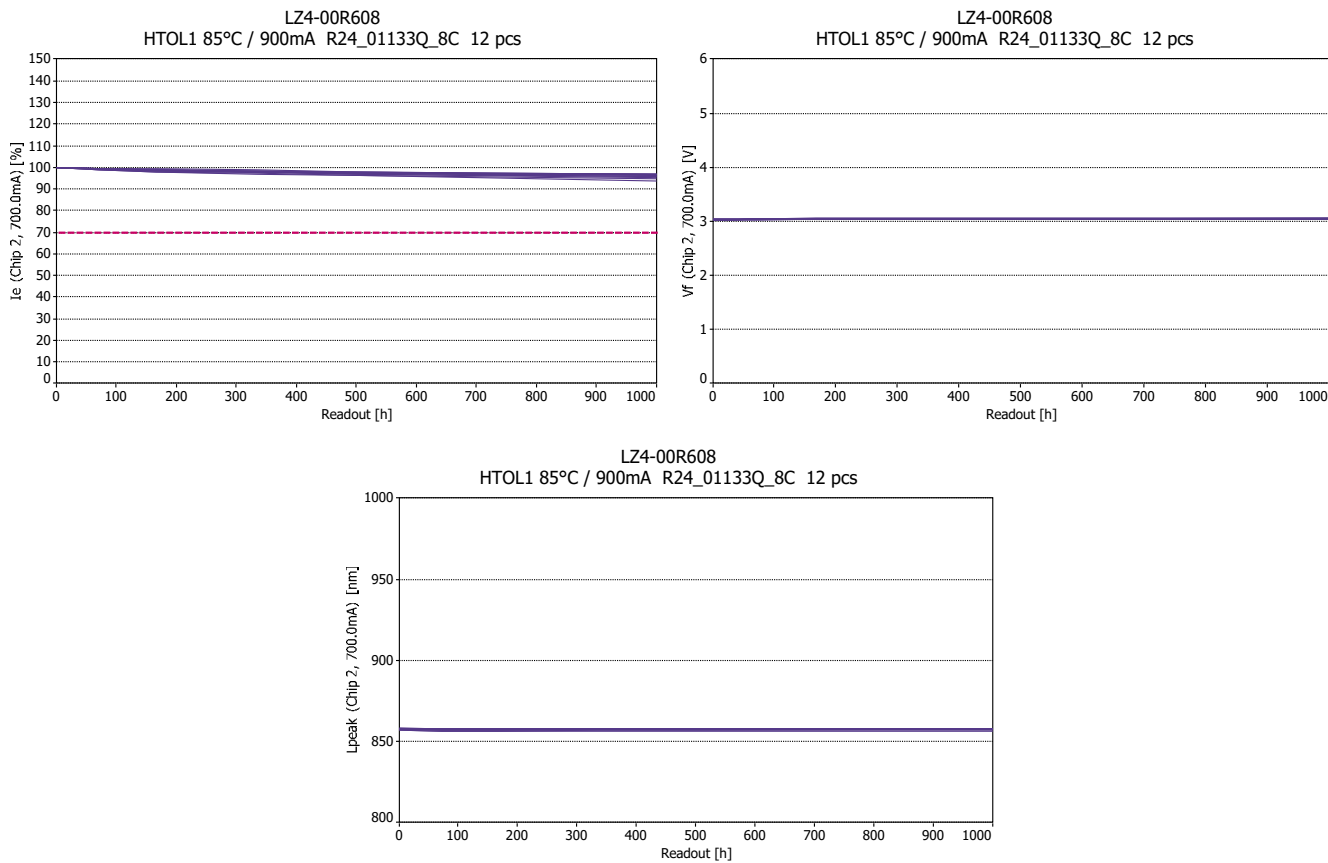
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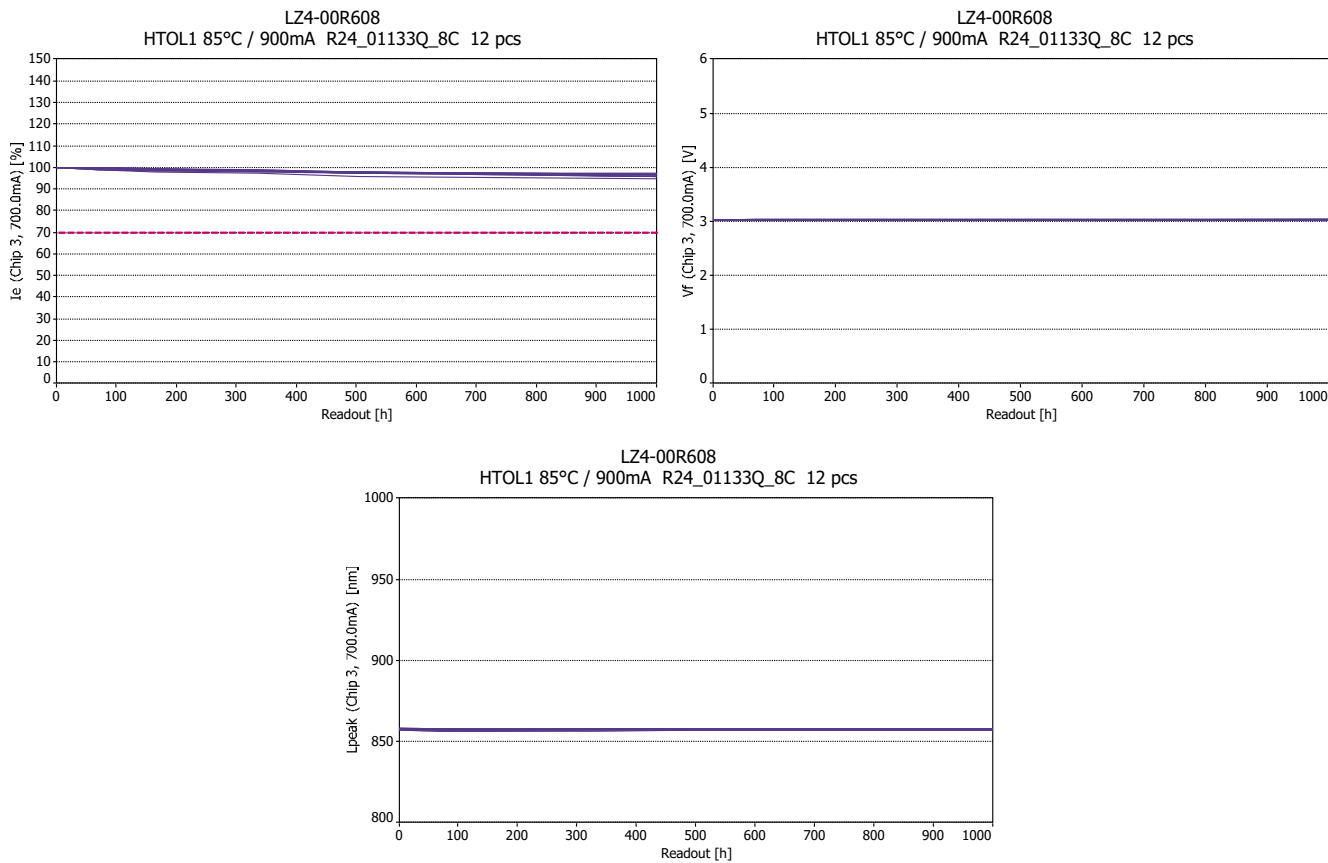
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Lot B – Chip 1



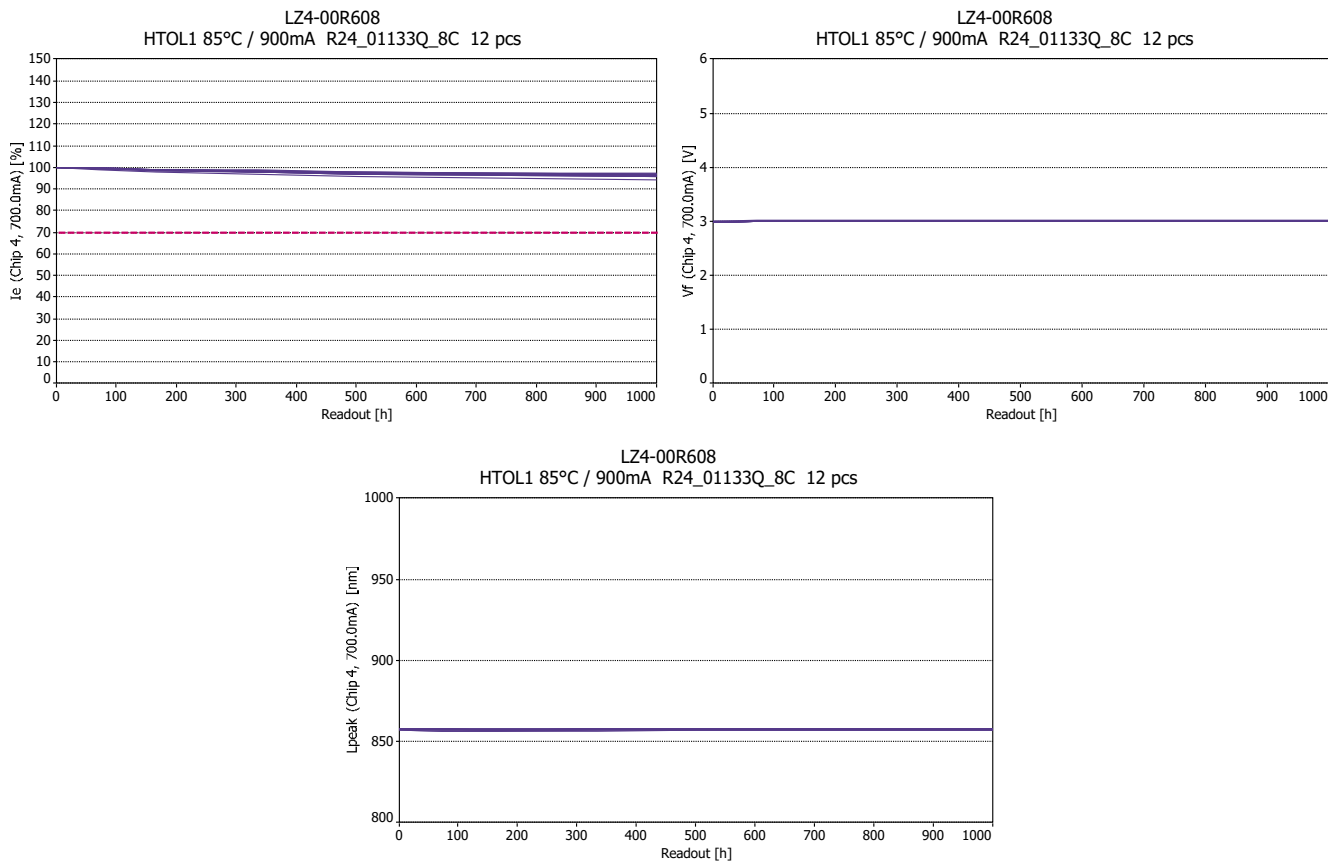
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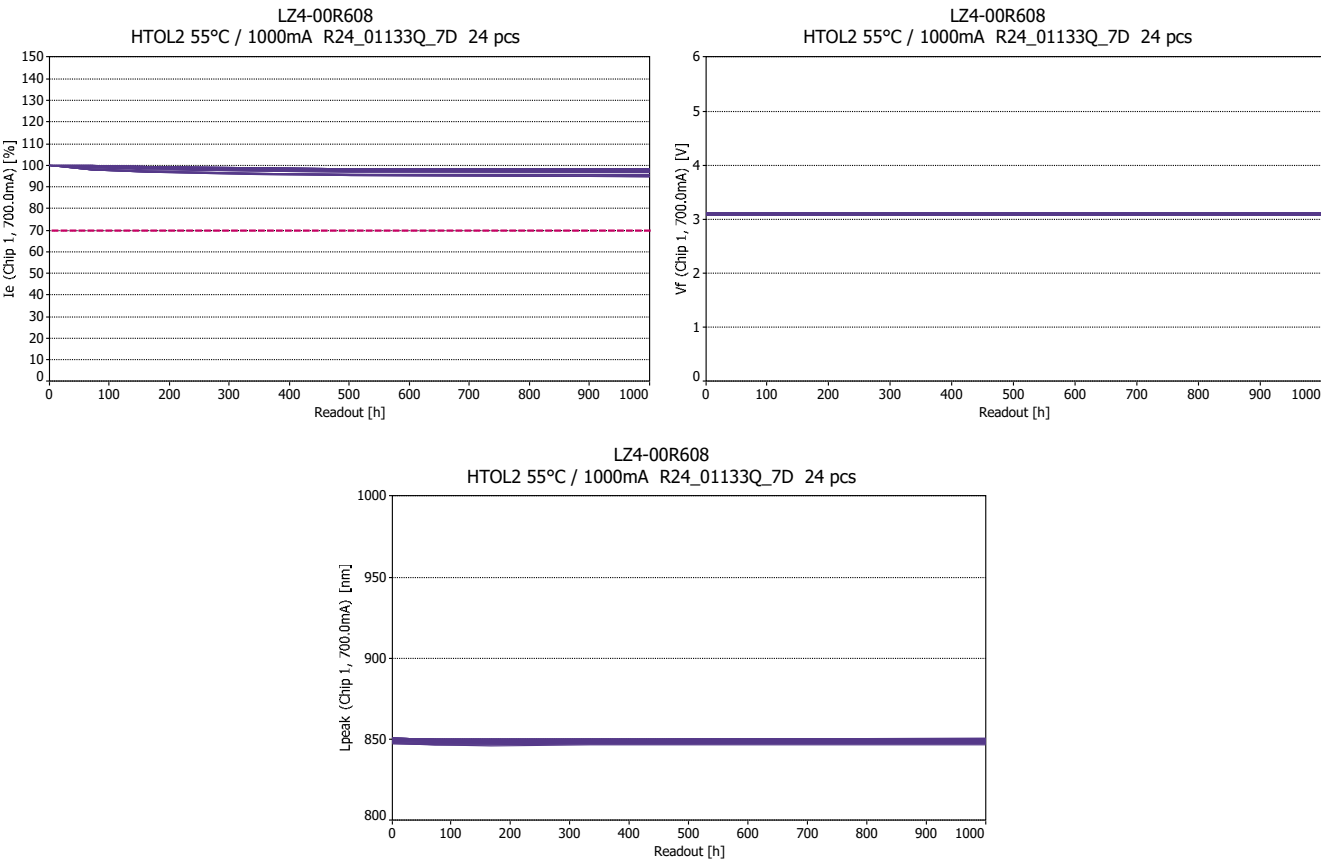
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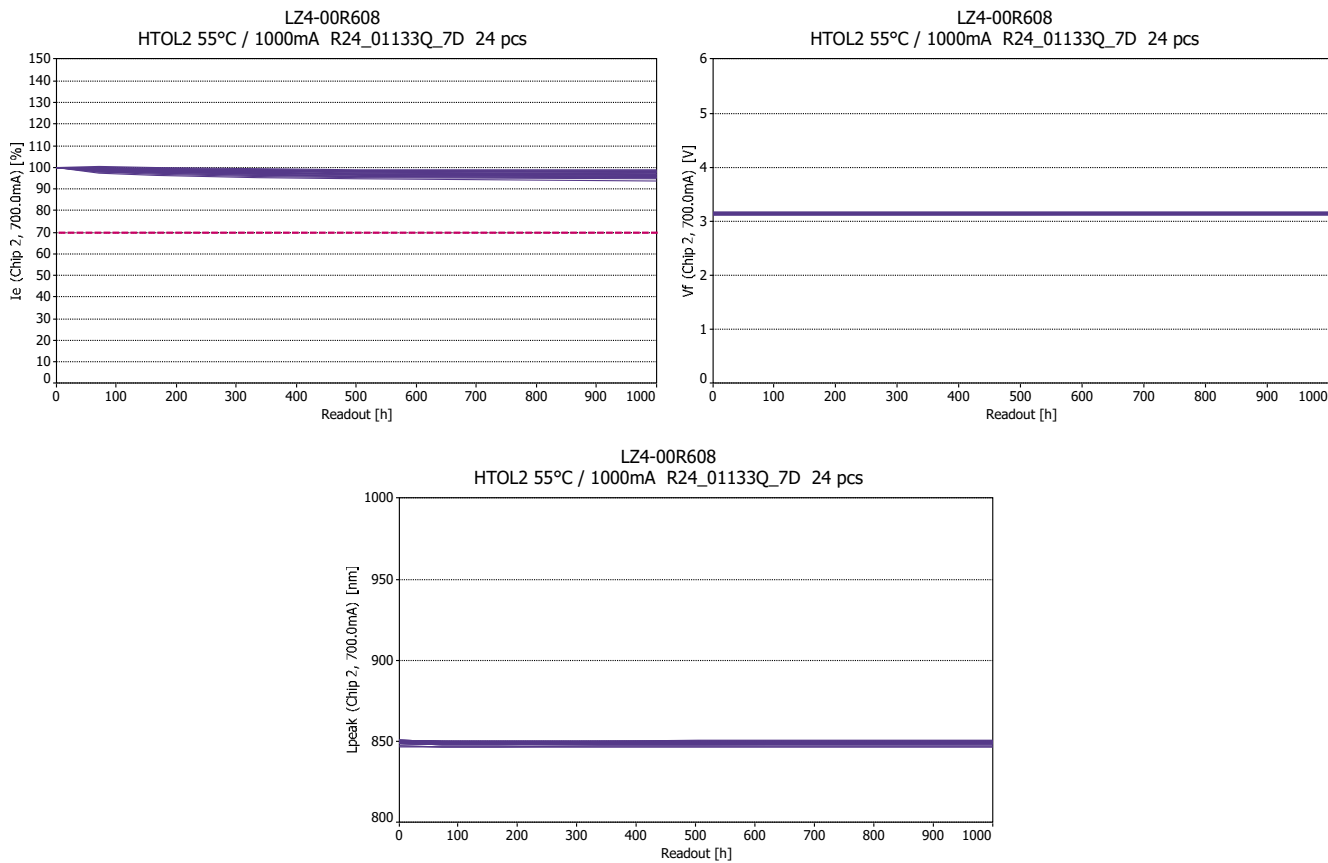
Lot B – Chip 4



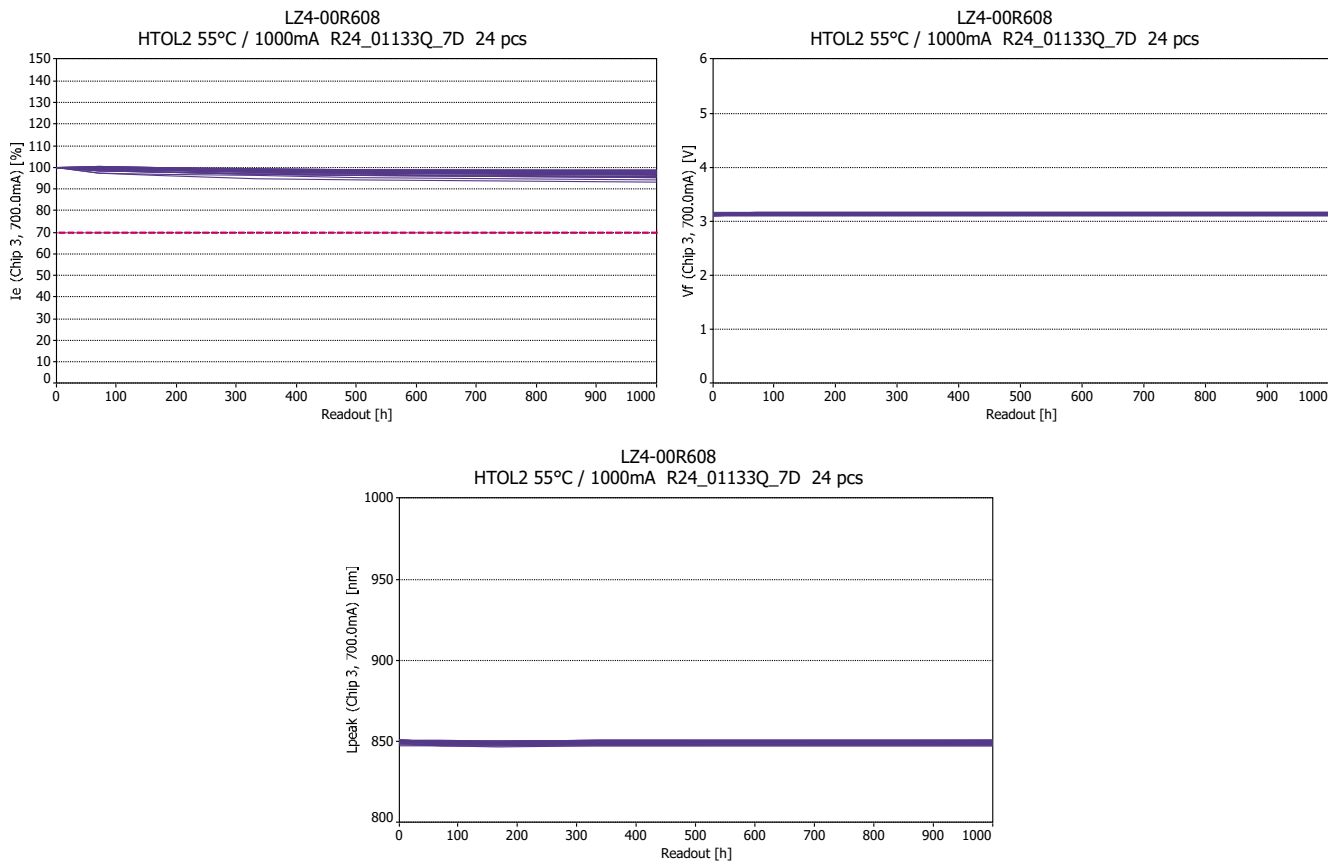
HTOL2 55°C/1000mA
Lot A – Chip 1



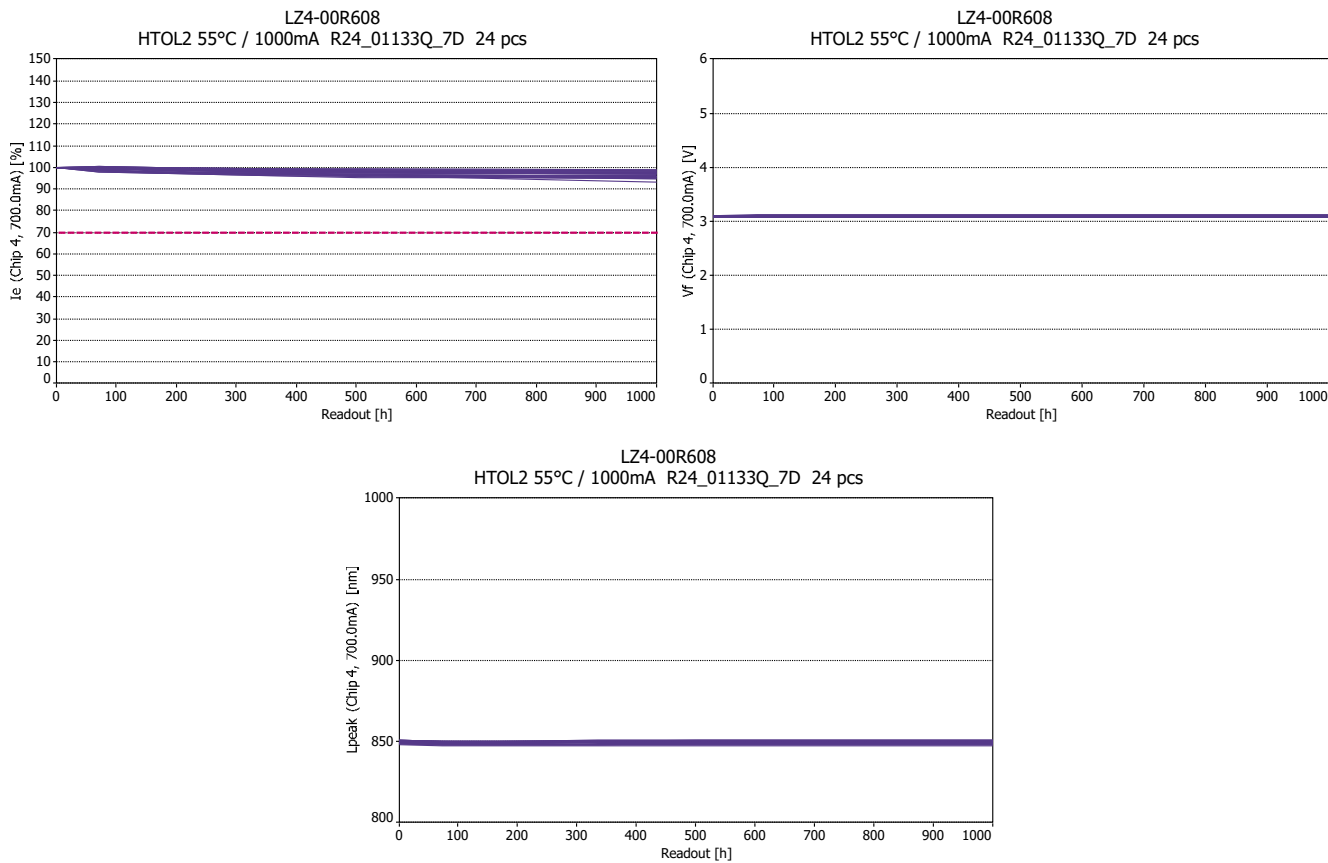
Lot A – Chip 2



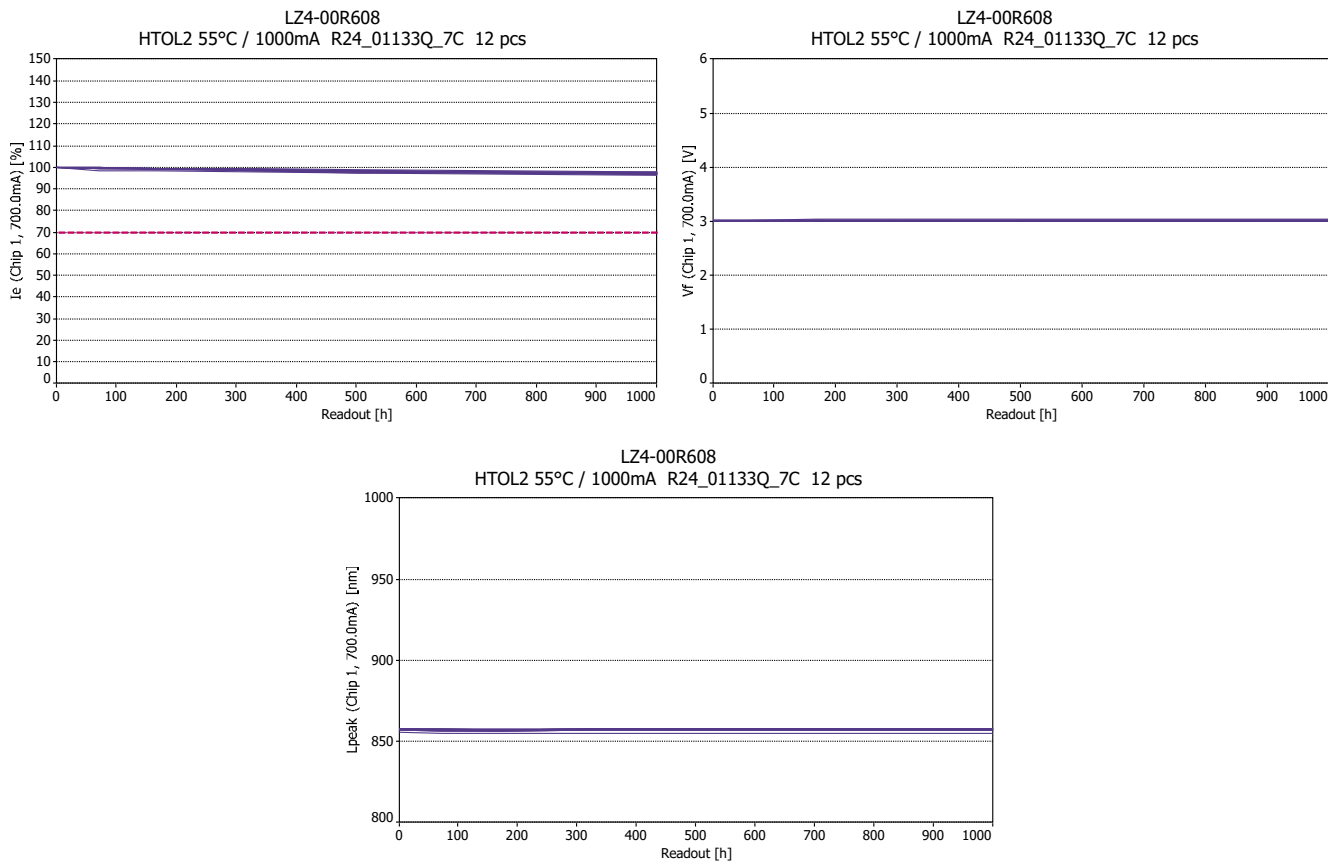
Lot A – Chip 3



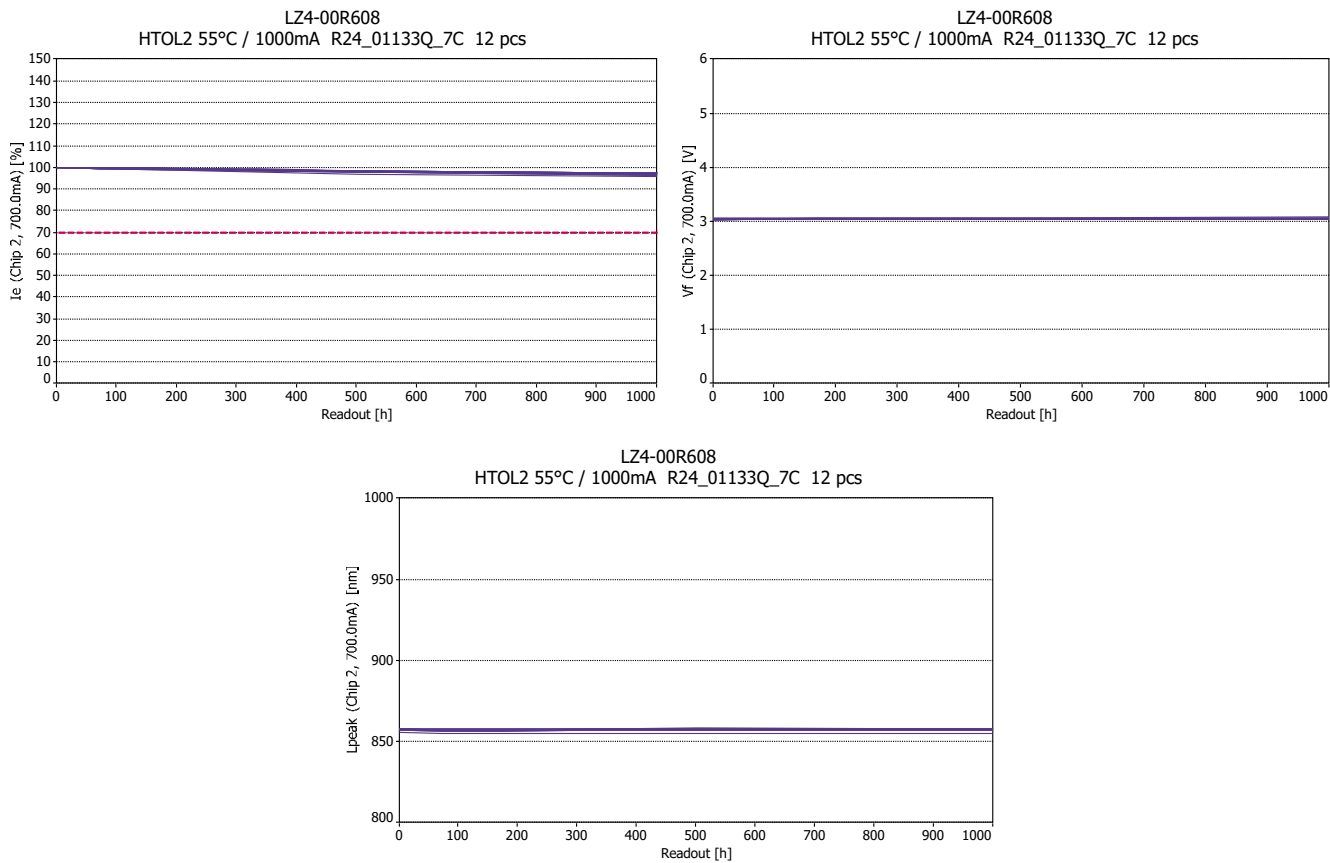
Lot A – Chip 4



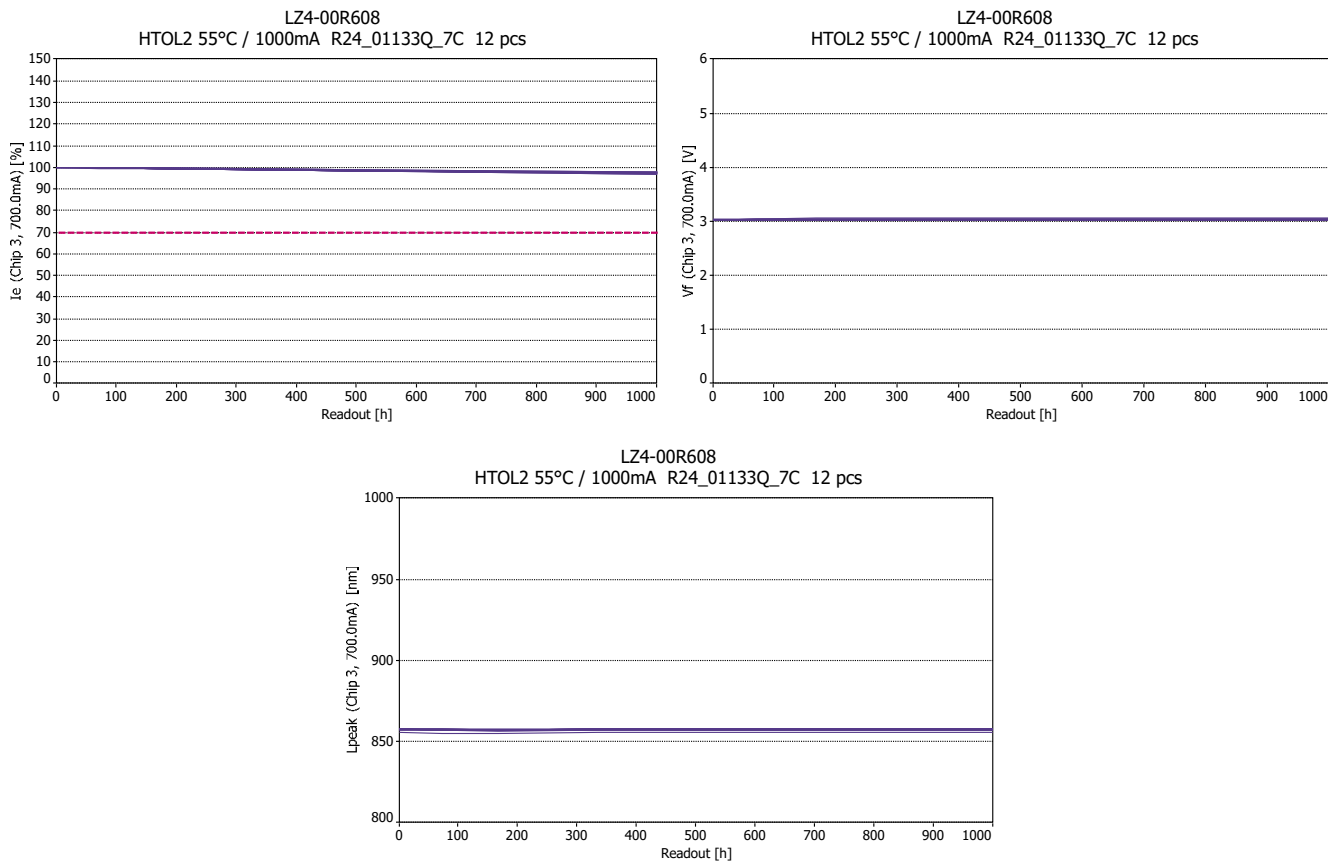
HTOL2 55°C/1000mA
Lot B – Chip 1



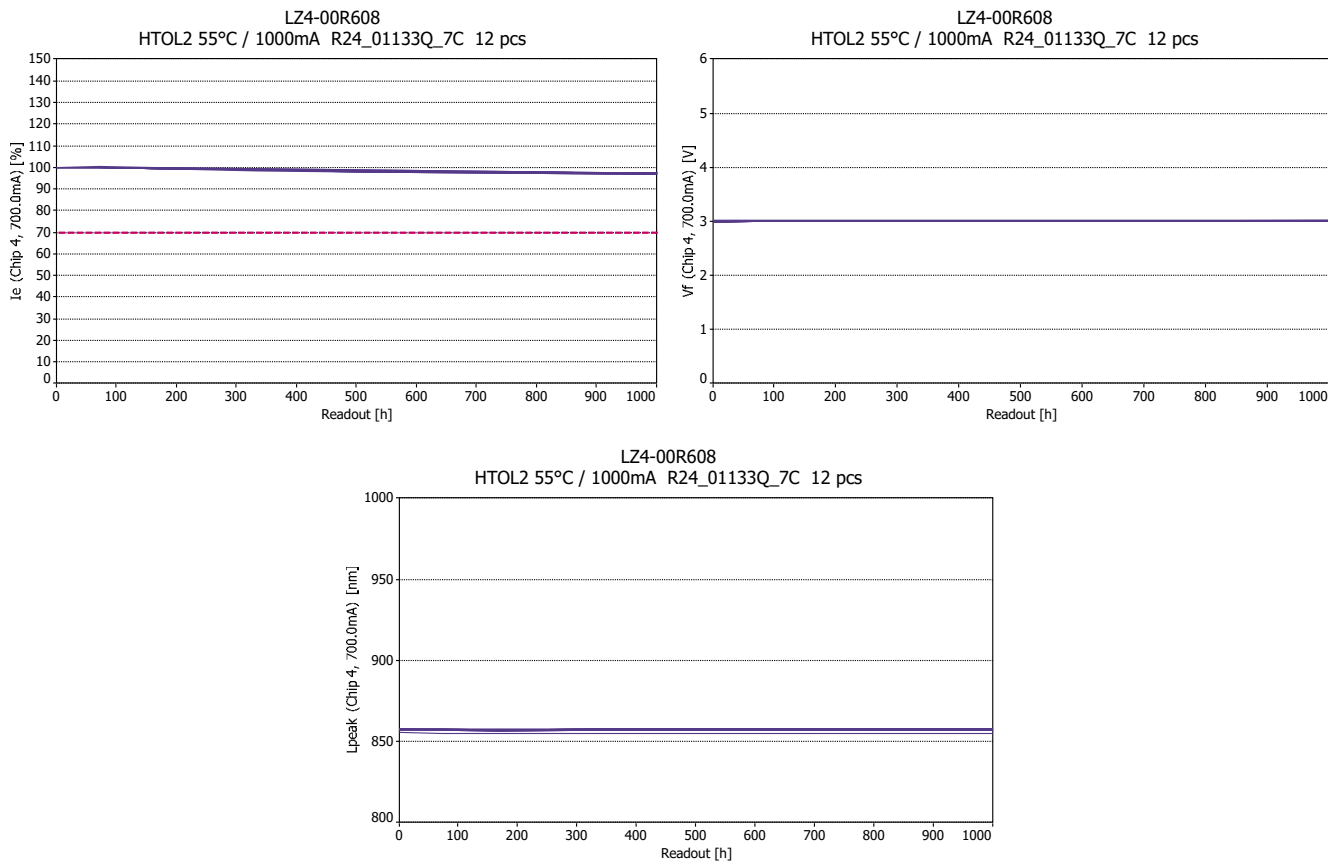
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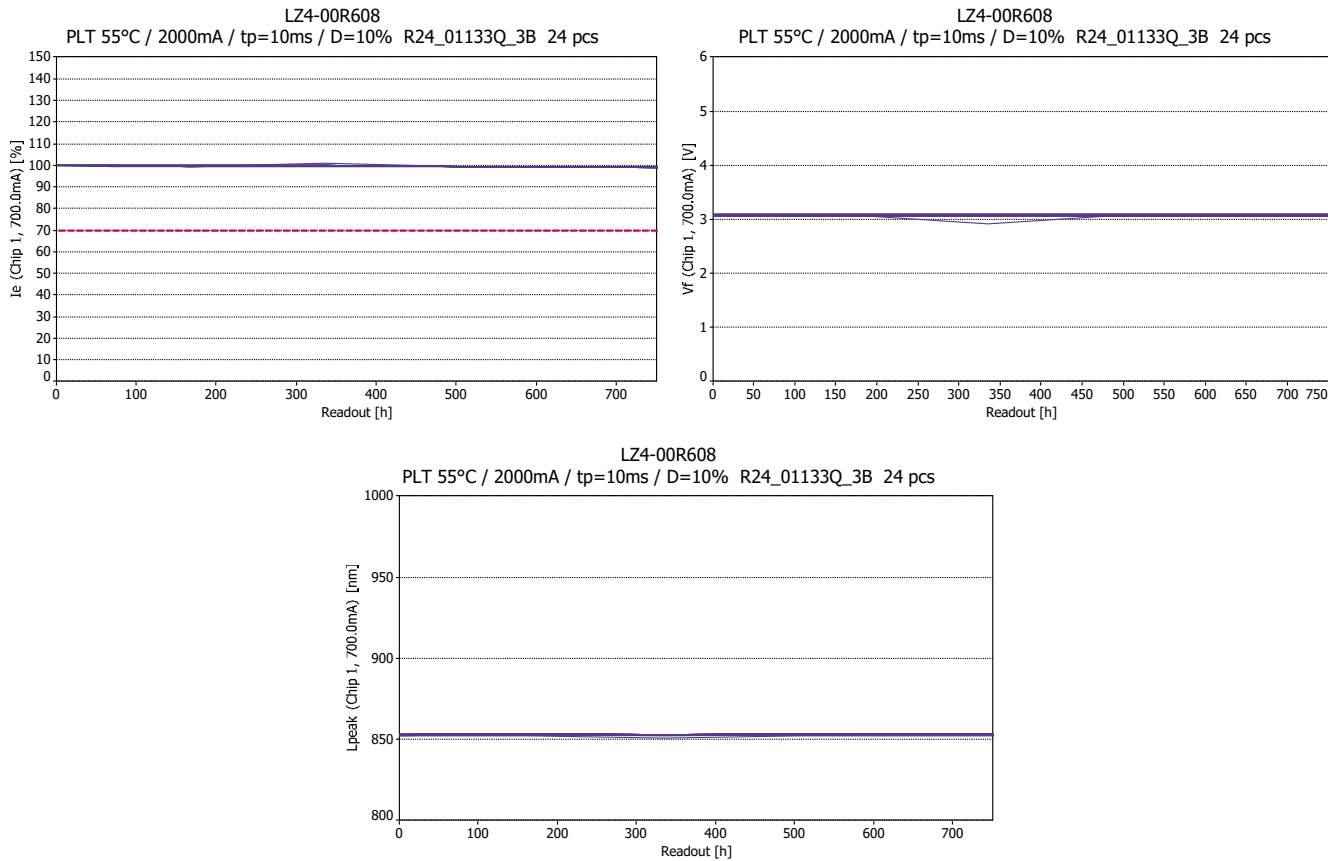
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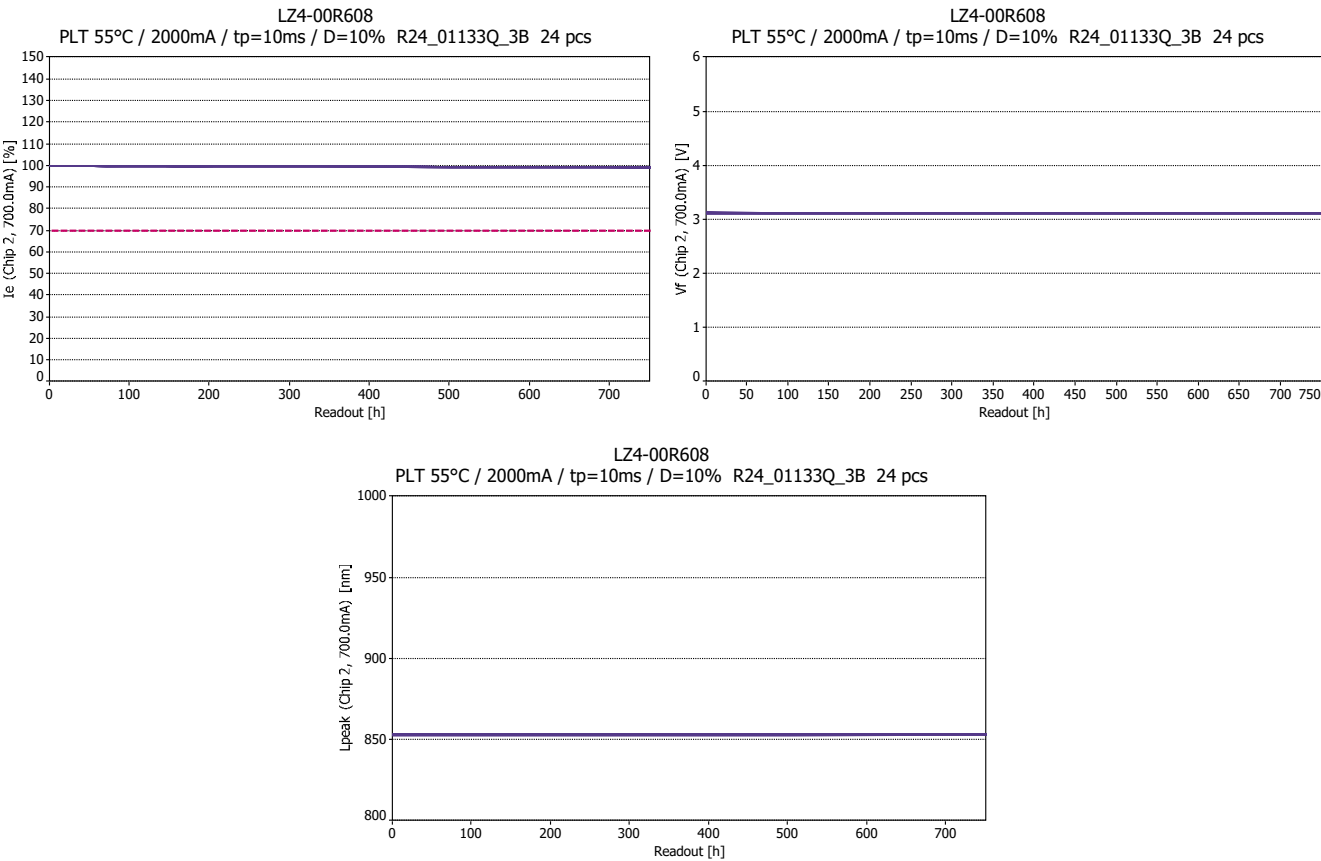
Lot B – Chip 4



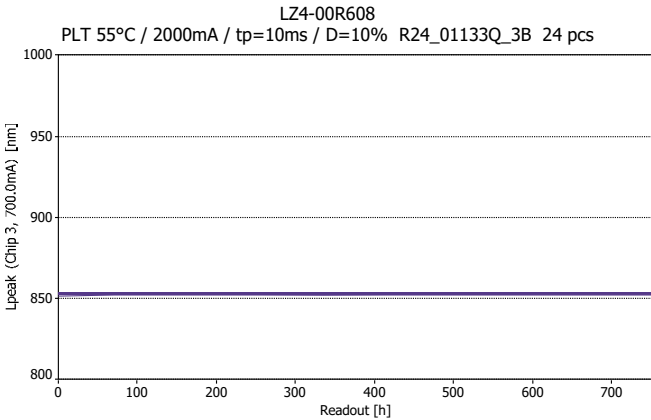
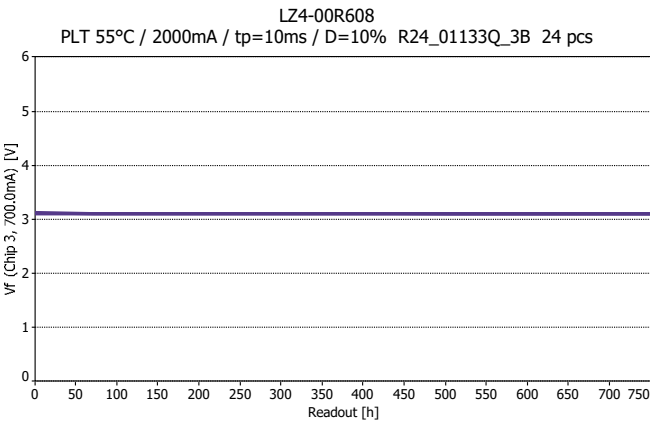
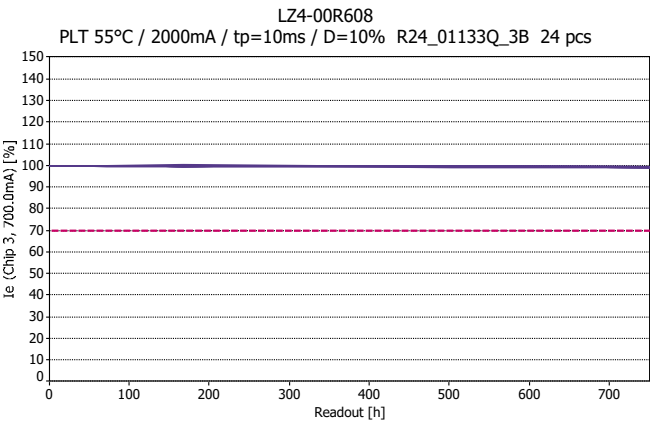
PLT 55°C/2000mA; tp=10ms; D=10%
Lot A – Chip 1



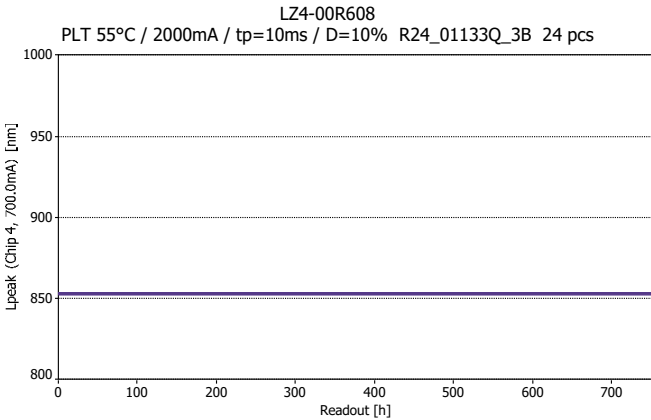
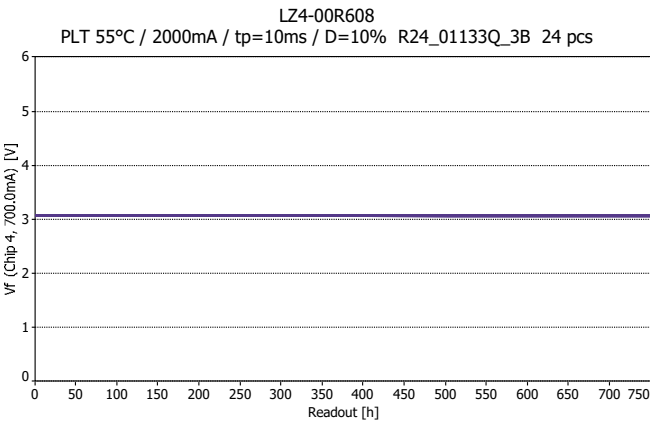
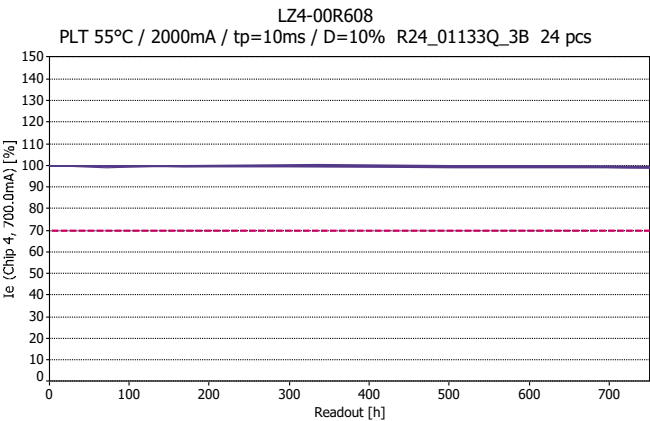
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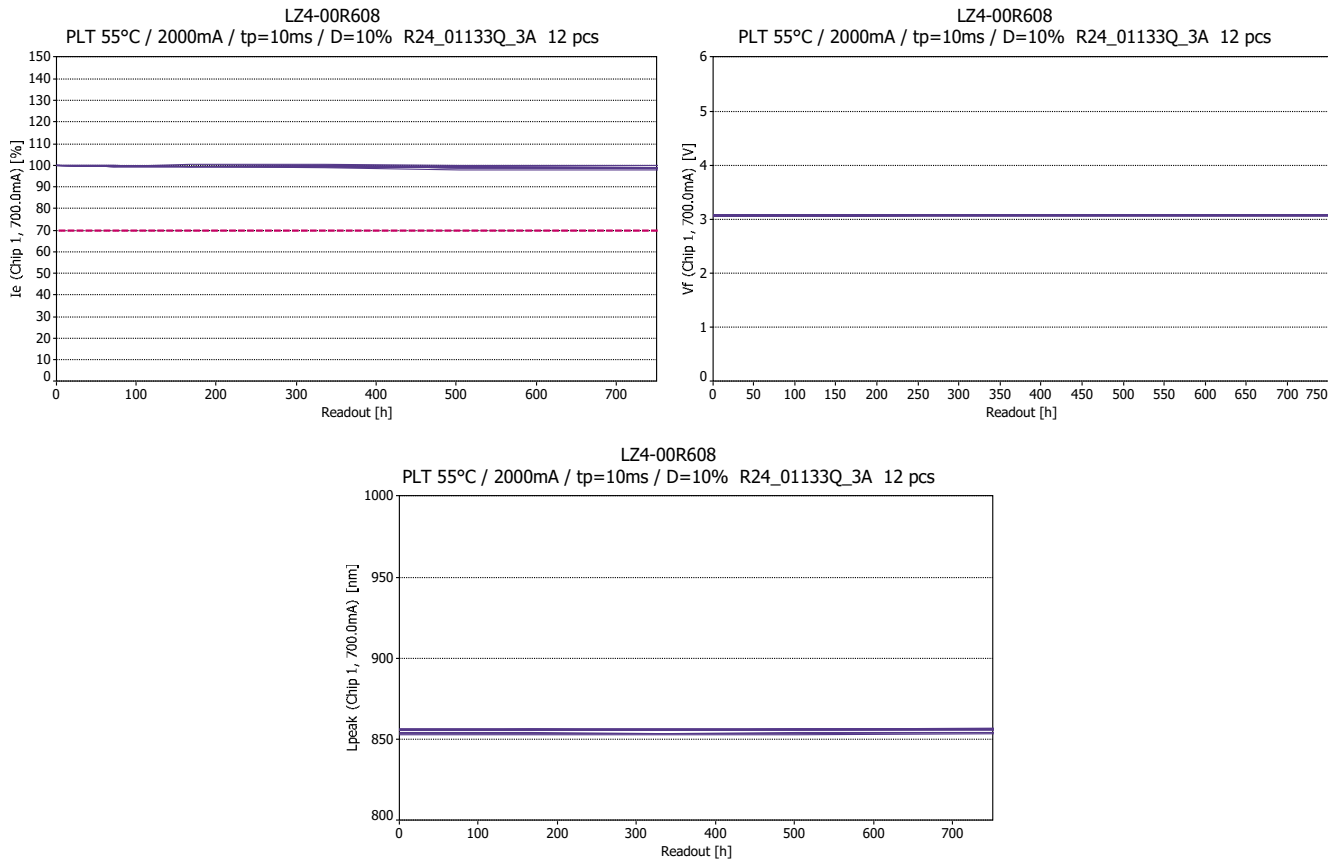
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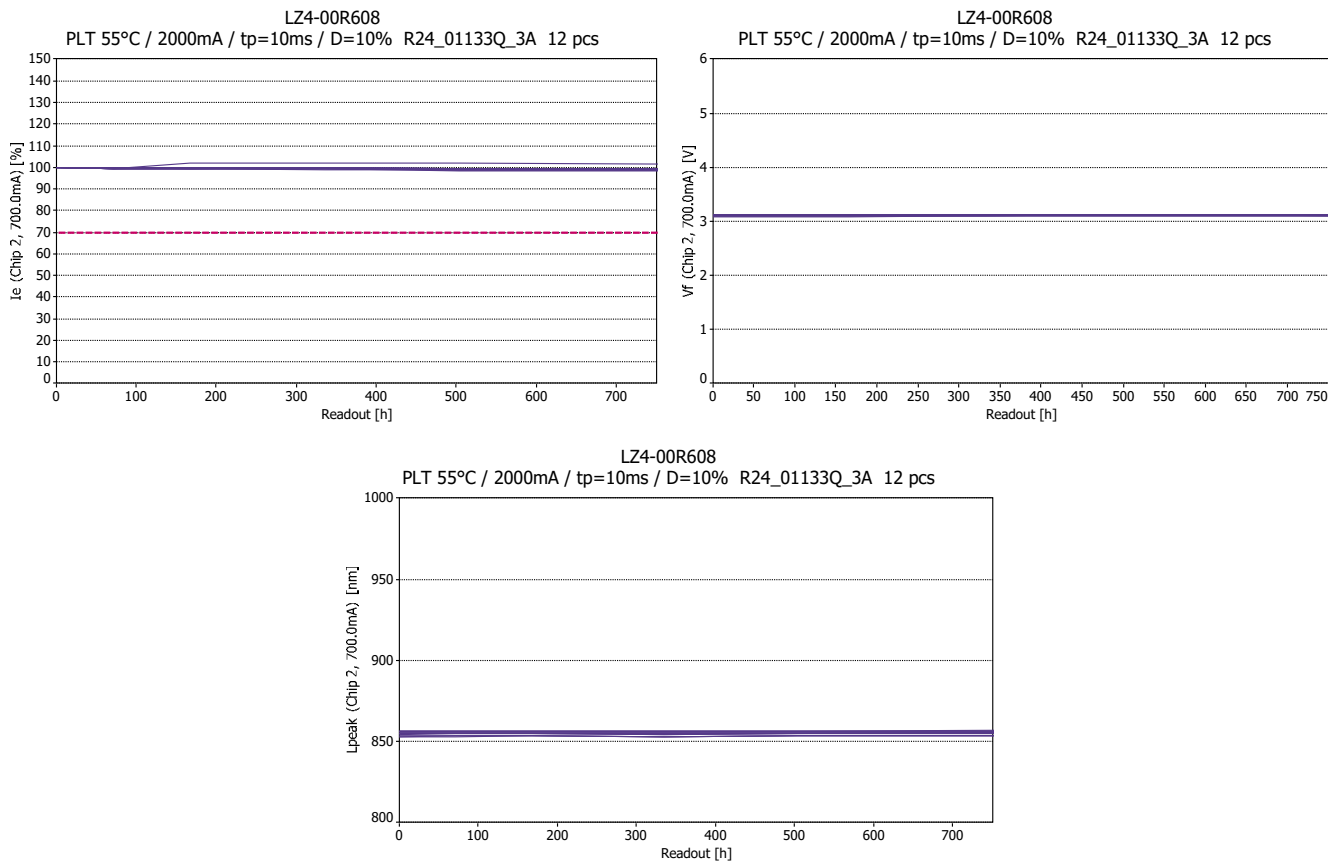
Lot A – Chip 4



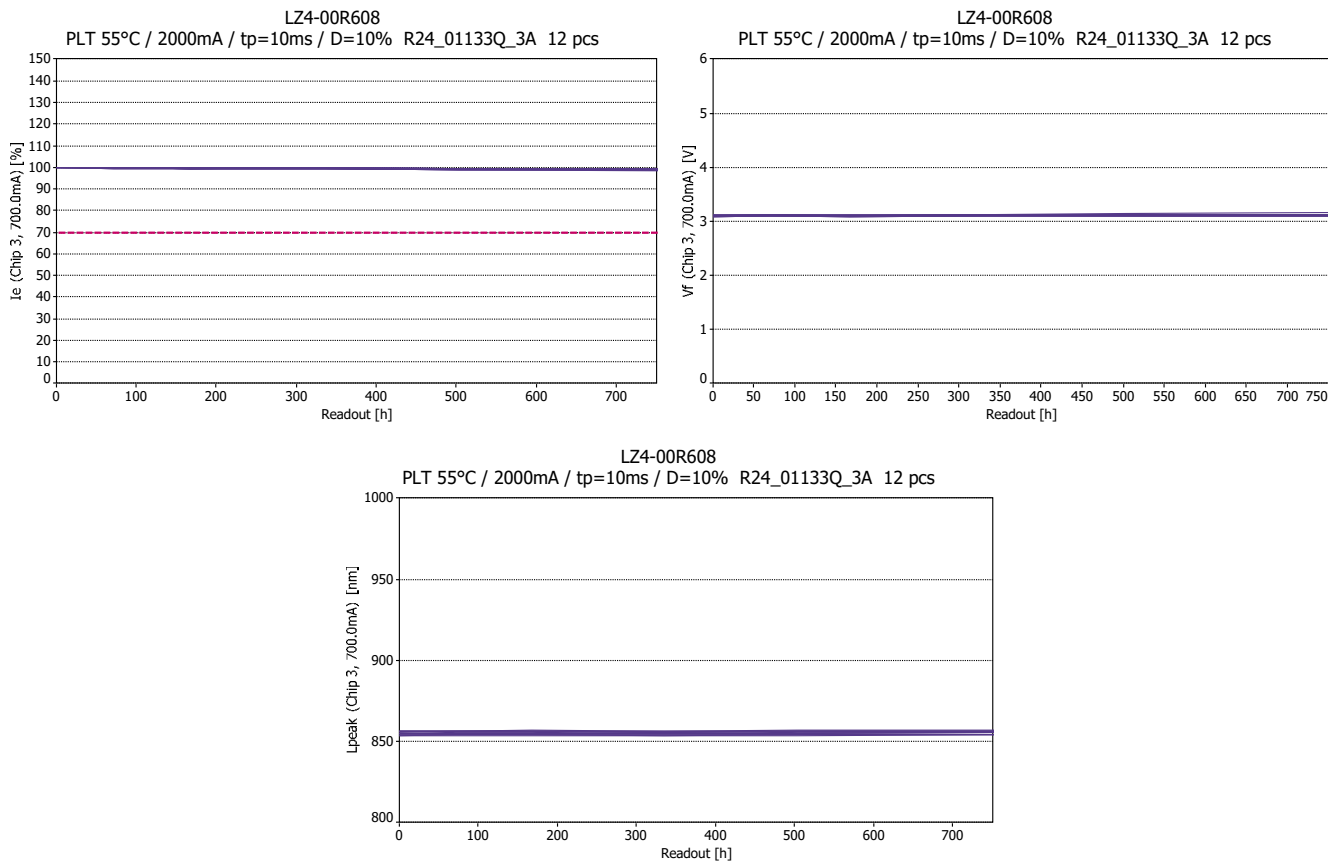
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Lot B – Chip 1



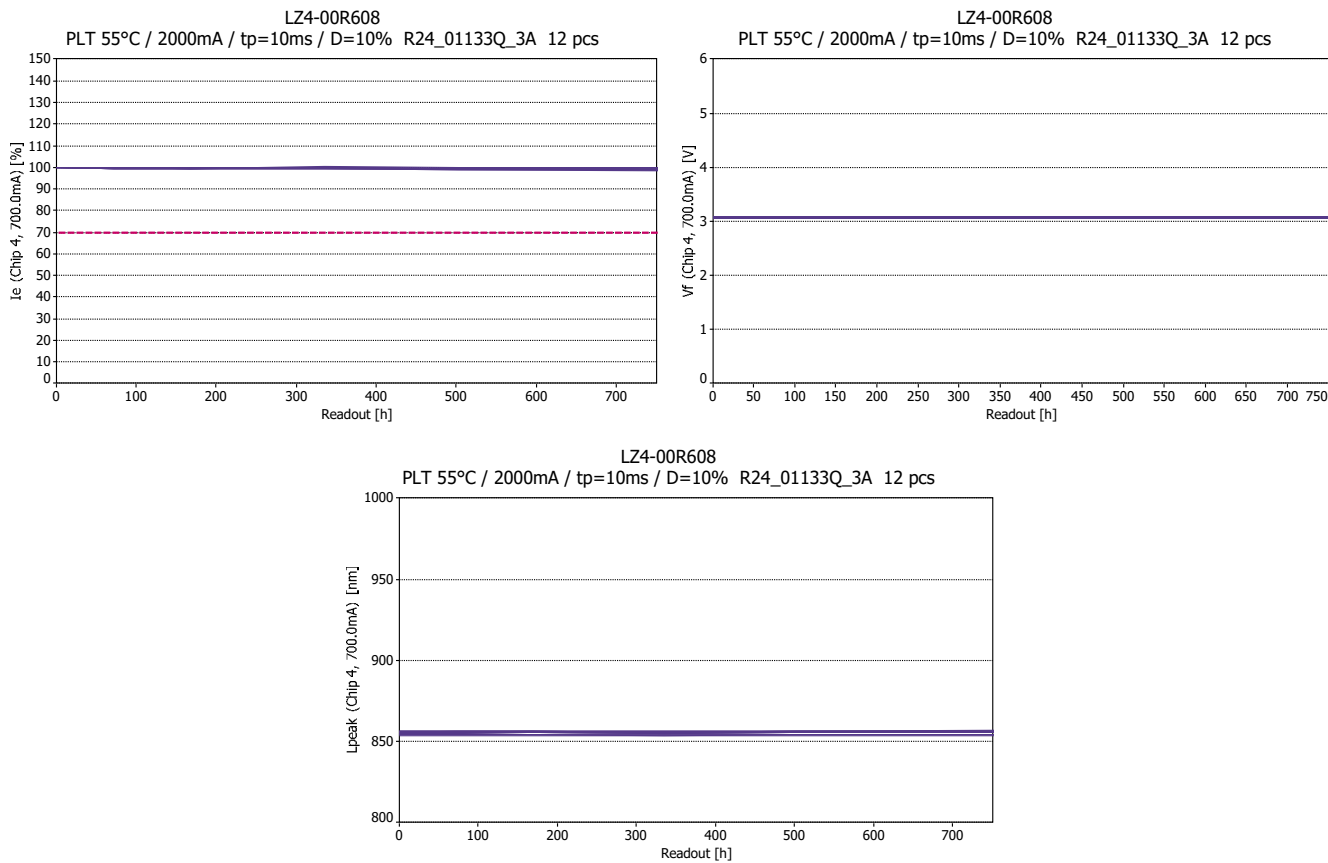
Lot B – Chip 2



Lot B – Chip 3



Lot B – Chip 4



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