



Product Change Notification **CN-202206012F**

Issue date: 11 Jul 2022
Effective date: 23 Oct 2022
Here's your personalized quality information concerning products our customers and partners purchased from Nexperia.
For more details please contact your respective Nexperia CSR/AM.



Change of die, lead frame and mold compound for schottky diodes in SOD123W

Change Category

<input checked="" type="checkbox"/>	<input type="checkbox"/>					
Wafer	Assembl					
Fab	y					
Process	Process	<input type="checkbox"/>	Product Marking	<input type="checkbox"/>	Test Location	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mechanical	<input type="checkbox"/>	Test Process	<input type="checkbox"/>
Wafer	Assembl		Specification		Equipment	<input type="checkbox"/>
Fab	y	<input type="checkbox"/>				Electrical spec./Test coverage
Materials	Materials		Packing/Shipping/Labeling			
<input type="checkbox"/>	<input type="checkbox"/>					
Wafer	Assembl					
Fab	y					
Location	Location					

Details of this change

The following items are changed in the affected products:

- New clip type with optimized geometry
- No silver spot on lead frame surface anymore
- Change of mold compound
- Shrinkage of die size from 960 µm x 960 µm to 910 µm x 910 µm and from 1290 µm x 1290 µm to 1220 µm x 1220 µm
- New die design
- Datasheet parameter IFSM "non-repetitive peak forward current" is measured with half sine wave pulses instead of square wave pulses

SQR_SOD123W_Standard_Portfolio.pdf:
https://qcm.nexperia.com/Document/DOC-540757/SQR_SOD123W_Standard_Portfolio.pdf

Why do we implement this change?

- Improvement of robustness and inline control during assembly process
- Adaption of lead frame surface to new die design
- Improvement of robustness against delamination of mold compound
- Increase of production capacity
- Alignment with Nexperia and world technology standards

Identification of affected products

Top Side Marking

Changed products can be identified by date code after implementation

Management summary

For all parts which are affected by this PCN the AEC-Q101 qualification status will be removed latest on 1st January 2023, please refer to CN-202201004F.

No automotive support (e.g. PPAPs) will be provided for affected products.

Product availability

Production

Planned first shipment: 17 Oct 2022

Existing inventory will be shipped until depleted

Sample information

Samples are available upon request

Impact

No impact to the product's functionality anticipated

Data sheet revision

A new datasheet will be issued

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 10 Aug 2022. Lack of acknowledgement of the PCN constitutes acceptance of the change.

Additional information

[View Change Notification Online](#)

Contact and support

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support Team.

For specific questions on this notice or the products affected please contact our specialist directly: pcn@nexperia.com

In case of distribution, please contact you distribution partner.

About Nexperia B.V.

We at Nexperia are the efficiency semiconductor company. We deliver over 90 billion products a year and as such service thousands of global customers, both directly and through our extensive network of channel partners. We are at the heart of billions of electronic devices in the

Automotive, Mobile, Industrial, Consumer, Computing, and Communication Infrastructure segments.

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SalesItem_name	SalesItem_orderablePartNumber	SalesOrder_customerPartNumber	ProductType_name	BasicType_description	PackageOutlineVersion_description	PackageType_description	SalesItem_state	SalesItem_customerSpecificIndicator	BusinessLine_description
934068673115	PMEG1001OELRX	934068673115	PMEG1001OELR	100 V, 1 A low leakage cur	SOD123W	SOD2	RFS	No	Bipolar Discretet
934068675115	PMEG1002OELRX	934068675115	PMEG1002OELR	100 V, 2 A low leakage cur	SOD123W	SOD2	RFS	No	Bipolar Discretet
934068674115	PMEG1002OELRX	934068674115	PMEG1002OELR	100 V, 2 A low leakage cur	SOD123W	SOD2	RFS	No	Bipolar Discretet
934061457115	PMEG3010BER,115	PMEG2010BER,115	PMEG2010BER	1 A low VF MEGA Schottky	SOD123W	SOD2	RFS	No	Bipolar Discretet
934061459115	PMEG3010BER,115	PMEG3010BER,115	PMEG3010BER	1 A low VF MEGA Schottky	SOD123W	SOD2	RFS	No	Bipolar Discretet
934061462115	PMEG3020BER,115	PMEG3020BER,115	PMEG3020BER	2 A low VF MEGA Schottky	SOD123W	SOD2	RFS	No	Bipolar Discretet
934061465115	PMEG4010ER,115	PMEG4010ER,115	PMEG4010ER	1 A low VF MEGA Schottky	SOD123W	SOD2	RFS	No	Bipolar Discretet
934066837115	PMEG4010ETR,115	PMEG4010ETR,115	PMEG4010ETR	High-temperature 40 V, 1	SOD123W	SOD2	RFS	No	Bipolar Discretet
934067653115	PMEG6010ELRX	934067653115	PMEG6010ELR	60 V, 1 A low leakage curr	SOD123W	SOD2	RFS	No	Bipolar Discretet
934061463115	PMEG6010ER,115	PMEG6010ER,115	PMEG6010ER	1 A low VF MEGA Schottky	SOD123W	SOD2	RFS	No	Bipolar Discretet
934068838115	PMEG6010ETR,115	PMEG6010ETR,115	PMEG6010ETR	High-temperature 60 V, 1	SOD123W	SOD2	RFS	No	Bipolar Discretet
934068897115	PMEG6020ELRX	934068897115	PMEG6020ELR	60 V, 2 A low leakage curr	SOD123W	SOD2	RFS	No	Bipolar Discretet
934067654115	PMEG6020ELRX	934067654115	PMEG6020ELR	60 V, 2 A low leakage curr	SOD123W	SOD2	RFS	No	Bipolar Discretet
934061464115	PMEG6020ER,115	PMEG6020ER,115	PMEG6020ER	2 A low VF MEGA Schottky	SOD123W	SOD2	RFS	No	Bipolar Discretet
934067092115	PMEG6020ETR,115	PMEG6020ETR,115	PMEG6020ETR	High-temperature 60 V, 2	SOD123W	SOD2	RFS	No	Bipolar Discretet