



## Product Change Notification

CN-202209022F

**Issue date:** 10 Oct 2022

**Effective date:** 22 Jan 2023

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.

Quality



## Change of die, lead frame and mold compound for schottky diodes in SOD123W PMEG4020 & PMEG4030

### Change Category

<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Wafer	Assembl				
Fab	y				
Process	Process	<input type="checkbox"/>	Product Marking	<input type="checkbox"/>	Test
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mechanical	<input type="checkbox"/>	Location
Wafer	Assembl		Specification	<input type="checkbox"/>	Test
Fab	y	<input type="checkbox"/>		<input type="checkbox"/>	Process
Material	Materials		Packing/Shipping/Labelin	<input type="checkbox"/>	Test
s	<input type="checkbox"/>	g		Equipmen	t
<input type="checkbox"/>	Assembl				coverage
Wafer	y				
Fab	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\_Homeprofile\_4020\_4030.pdf:

[https://qcm.nexperia.com/Document/DOC-544497/SQR\\_SOD123W\\_Homeprofile\\_4020\\_4030.pdf](https://qcm.nexperia.com/Document/DOC-544497/SQR_SOD123W_Homeprofile_4020_4030.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

## **Product availability**

### **Production**

Planned first shipment: 19 Jan 2023

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 09 Nov 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](mailto: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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