



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.



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

Change Category

- Wafer
- Fab
- Process
- Wafer
- Fab
- Materials
- Wafer
- Fab
- Location
- Assembl
- y
- Process
- Assembl
- y
- Materials
- Assembl
- y
- Location
- Product Marking
- Mechanical
- Specification
- Packing/Shipping/Labelin
- g
- Test Location
- Test Process
- Test Equipmen
- t
- Design
- Errata
- Electrical spec./Tes
- t coverage

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

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

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
934061466115	PMEG4020ER,115	PMEG4020ER,115	PMEG4020ER	2 A low VF MEGA Schottky	SOD123W	SOD2	RFS	No	Bipolar Discretes
934065455115	PMEG4020ETR,115	PMEG4020ETR,115	PMEG4020ETR	40 V, 2 A low VF MEGA Sci	SOD123W	SOD2	RFS	No	Bipolar Discretes
934061467115	PMEG4030ER,115	PMEG4030ER,115	PMEG4030ER	3 A low VF MEGA Schottky	SOD123W	SOD2	RFS	No	Bipolar Discretes
934662964115	PMEG4030ETRX	PMEG4030ETRX	PMEG4030ETR	40V, 3 A Schottky Rectifier	SOD123W	SOD2	RFS	No	Bipolar Discretes