Product Change Notification CN-202212018F

Issue date: 26 Jan 2023

Effective date: 11 May 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 SOD128

Change Category

[X] Wafer Fab Process
[X] Wafer Fab Materials
[ ] Wafer Fab Location
[ ] Assembly Process
[X] Assembly Materials
[ ] Assembly Location
[ ] Product Marking
[ ] Mechanical Specification
[ ] Packing/Shipping/Labeling
[ ] Test Location
[ ] Test Process
[ ] Test Equipment
[X] Design
[ ] Errata
[ ] Electrical spec./Test 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 µm², 1290 µm², 1520 µm² and 1900 µm² to 910 µm², 1220 µm², 1440 µm² and 1780 µm², respectively
- New die design
- Datasheet parameter IFSM "non-repetitive peak forward current" is measured with half sine wave pulses instead of square wave pulses

PCN-FORM-Nexperia_CN-202212018F.xlsm:
https://qcm.nexperia.com/Document/DOC-549403/PCN-FORM-Nexperia_CN-202212018F.xlsm

SQR_SOD128_BL252.pdf: https://qcm.nexperia.com/Document/DOC-549402/SQR_SOD128_BL252.pdf

PCN-2022012018F_Change_overview-DeQuMa.xlsx:
https://qcm.nexperia.com/Document/DOC-549400/PCN-2022012018F_Change_overview-DeQuMa.xlsx

PCN-Delta-Qualification-Matrix-CN-202212018F.xlsm:
https://qcm.nexperia.com/Document/DOC-549399/PCN-Delta-Qualification-Matrix-CN-202212018F.xlsm

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: 05 May 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 25 Feb 2023. 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.