

Product Change Notification **CN-202406006F**

Issue date: 01 Aug 2024

Effective date: 13 Nov 2024

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.



Release of 8 inch wafer diameter and change of die pitch size for Zener diodes

Change Category

- | | | | | | |
|---|--------------------------|--|---|---|--|
| <input checked="" type="checkbox"/> Wafer | <input type="checkbox"/> | | | | |
| Fab | Assembly | | | | |
| Process | Process | <input type="checkbox"/> Product Marking | <input type="checkbox"/> Test Location | <input type="checkbox"/> Design | |
| <input checked="" type="checkbox"/> Wafer | <input type="checkbox"/> | <input type="checkbox"/> Mechanical Specification | <input type="checkbox"/> Test Process | <input type="checkbox"/> Errata | |
| Fab | Assembly | | | <input type="checkbox"/> Electrical spec./Test coverage | |
| Materials | Materials | <input type="checkbox"/> | <input type="checkbox"/> Test Equipment | | |
| <input type="checkbox"/> Wafer | <input type="checkbox"/> | <input type="checkbox"/> Packing/Shipping/Labeling | | | |
| Fab | Assembly | | | | |
| Location | Location | | | | |

Details of this change

Release of 8 inch wafer diameter for Zener diodes.

Old products: Production using 6 inch wafer diameter

Changed products: Production using 6 and 8 inch wafer diameter

Selected types have a change in die size along with release of 8 inch wafer diameter.

Please refer to the Self Qualification Report for details and list of affected product types.

Production on 8 inch wafer diameter implies the use of the respective 8 inch wafer process technology.

SQR_CN_202406006F.pdf: https://qcm.nexperia.com/Document/DOC-577878/SQR_CN_202406006F.pdf

PCN-FORM-Rev_5_0_2_CN-202406006F.xlsm:
https://qcm.nexperia.com/Document/DOC-577879/PCN-FORM-Rev_5_0_2_CN-202406006F.xlsm

CN-202406006F_changeMatrix.xlsx:
https://qcm.nexperia.com/Document/DOC-575923/CN-202406006F_changeMatrix.xlsx

PCN-Delta-Qualification-Matrix-ZVEI-5_0_16_CN-202406006F.xlsm:
https://qcm.nexperia.com/Document/DOC-575573/PCN-Delta-Qualification-Matrix-ZVEI-5_0_16_CN-202406006F.xlsm

Why do we implement this change?

Capacity expansion in wafer fab

- Next phase in 8 inch release after start with 8 inch implementation of bipolar transistors in 2011
- Continued alignment with world technology trends on state of the art production tools for discrete components
- Increase flexibility and volume ramp-up

Identification of affected products

The 8 inch products can be identified by a marker on the die surface.

Management summary

- SEM-PW-02 New wafer diameter
- SEM-PW-14 Lithography
- SEM-DE-03 Die Shrink

Product availability

Production

Planned first shipment: 14 Oct 2024

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

Disposition of old products

Supply using 6 inch wafer will be continued in parallel to 8 inch wafer production.

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 31 Aug 2024. 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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