

**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 for Zener diodes**

**Change**

**Category**

- [X] Wafer
- Fab  Assembly
- Process  Process  Product Marking  Test Location  Design
- [X] Wafer   Mechanical  Test  Errata
- Fab  Assembly  Specification  Test Process  Electrical spec./Test coverage
- Materials  Materials
- [ ] Wafer   Packing/Shipping/Labeling  Test Equipment
- 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

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\_202406007F.pdf: [https://qcm.nexperia.com/Document/DOC-577885/SQR\\_CN\\_202406007F.pdf](https://qcm.nexperia.com/Document/DOC-577885/SQR_CN_202406007F.pdf)

PCN-FORM-Rev\_5\_0\_2\_CN-202406007F.xlsm:

[https://qcm.nexperia.com/Document/DOC-577884/PCN-FORM-Rev\\_5\\_0\\_2\\_CN-202406007F.xlsm](https://qcm.nexperia.com/Document/DOC-577884/PCN-FORM-Rev_5_0_2_CN-202406007F.xlsm)

CN-202406007F\_changeMatrix.xlsx:

[https://qcm.nexperia.com/Document/DOC-576721/CN-202406007F\\_changeMatrix.xlsx](https://qcm.nexperia.com/Document/DOC-576721/CN-202406007F_changeMatrix.xlsx)

PCN-Delta-Qualification-Matrix-ZVEI-5\_0\_16\_CN-202406007F.xlsm:

[https://qcm.nexperia.com/Document/DOC-575579/PCN-Delta-Qualification-Matrix-ZVEI-5\\_0\\_16\\_CN-202406007F.xlsm](https://qcm.nexperia.com/Document/DOC-575579/PCN-Delta-Qualification-Matrix-ZVEI-5_0_16_CN-202406007F.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

## 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](mailto:pcn@nexperia.com)

In case of distribution, please contact you distribution partner.

### About Nexperia B.V.

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