

# **Product Change Notification**

Issue date: 11 Jul 2022

Effective date: 23 Oct 2022

Dear pcn@ttiinc.com,

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.

# CN-202206012F



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

# Change Category

Location

[X] Wafer Fab Process [X] Wafer Fab Material s [] Wafer Fab	[] Assembl y Process [X] Assembl y Materials [] Assembl y Location	[ ] Product Marking [ ] Mechanical Specification [ ] Packing/Shipping/Labelin g	[ ] Test Location [ ] Test Process [ ] Test Equipmen t	[X] 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\_Standard\_Portfolio.pdf: https://qcm.nexperia.com/Document/DOC-540757/SQR SOD123W Standard Portfolio.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

## **Management summary**

For all parts which are affected by this PCN the AEC-Q101 qualification status will be removed latest on 1st January 2023, please refer to CN-202201004F.

No automotive support (e.g. PPAPs) will be provided for affected products.

## **Product availability**

#### **Production**

Planned first shipment: 17 Oct 2022

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 10 Aug 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: <a href="mailto:pcn@nexperia.com">pcn@nexperia.com</a>

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

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Salesitem	ame SalesItem_orderablePartNumber	SalesOrder_customerPartNumber	ProductType_name	BasicType_description	PackageOutlineVersion_description	PackageType_description	Sales/tem_state	Salesitem_discontinuationType	Sales/item_availability	Salesitem_source	Salesitem_lastTimeBuyDate	SalesItem_lastTimeShipDate	SalesItem_customerSpecificIndicator	Replacement_Sales/tem_orderablePartNumber	Replacement_Sales/Item_name	Replacement_ProductType_name	Replacement_BasicType_description	BusinessLine_description
934068673	15 PMEG10010ELRX	PMEG10010ELRX	PMEG10010ELR	100 V, 1 A low leakage current Schottky barrier rectifier	50D123W	5002	RFS						No					Bipolar Discretes
934068675	15 PMEG10020AELRX	PMEG10020AELRX	PMEG 10020AELR	100 V, 2 A low leakage current Schottky barrier rectifier	500123W	5002	RFS						No					Bipolar Discretes
934068674	15 PMEG 10020ELRX	PMEG10020ELRX	PIMEG 10020ELR	100 V, 2 A low leakage current Schottky barrier rectifier	SOD123W	5002	RFS						No					Bipolar Discretes
934061457	15 PMEG2010BER,115	PMEG2010BER,115	PMEG2010BER	1 A low Vf MEGA Schottky barrier rectifier	50D123W	5002	RFS						No					Bipolar Discretes
934061459	15 PMEG30108ER,115		PMEG3010BER	1 A low Vf MEGA Schottky barrier rectifier	SOD123W	5002	RFS						No					Bipolar Discretes
934061462		PMEG30208ER,115	PMEG3020BER	2 A low VF MEGA Schottky barrier rectifier	SOD123W	5002	RFS						No					Bipolar Discretes
934061465	15 PMEG4010ER,115	PMEG4010ER,115	PMEG4010ER	1 A low VF MEGA Schottky barrier rectifier	500123W	5002	RFS						No					Bipolar Discretes
934066837		PMEG4010ETR,115	PMEG-4010ETR	High-temperature 40 V, 1 A Schottky barrier rectifier	SOD123W	5002	RFS						No					Bipolar Discretes
934067653	15 PMEG6010ELRX	PMEG6010ELRX	PMEG6010ELR	60 V, 1 A low leakage current Schottky barrier rectifier	500123W	5002	RFS						No					Bipolar Discretes
934061463	15 PMEG6010ER,115	PMEG6010ER,115	PMEG6010ER	1 A low VF MEGA Schottky barrier rectifier	500123W	5002	RFS						No					Bipolar Discretes
934066838	15 PMEG6010ETR, 115	PMEG6010ETR,115	PMEG6010ETR	High-temperature 60 V, 1 A Schottky barrier rectifier	SOD123W	5002	RFS						No					Bipolar Discretes
934068897	15 PMEG6020AELRX	PMEG6020AELRX	PMEG6020AELR	60 V, 2 A low leakage current Schottky barrier rectifier	50D123W	5002	RFS						No					Bipolar Discretes
934067654		PMEG6020ELRX	PMEG6020ELR	60 V, 2 A low leakage current Schottky barrier rectifier	500123W	5002	RFS						No					Bipolar Discretes
934061464	15 PMEG6020ER,115	PMEG6020ER,115	PMEG6020ER	2 A low VF MEGA Schottky barrier rectifier	500123W	5002	RFS						No					Bipolar Discretes
934067092	15 PMEG6020ETR,115	PMEG6020ETR,115	PMEG6020ETR	High-temperature 60 V, 2 A Schottky barrier rectifier	500123W	5002	RFS						No					Bipolar Discretes