



**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**

<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Wafer	Assembl				
Fab	y				
Process	Process	<input type="checkbox"/>	Product Marking	<input type="checkbox"/>	Test Design
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mechanical	<input type="checkbox"/>	Location
Wafer	Assembl		Specification	<input type="checkbox"/>	Test
Fab	y	<input type="checkbox"/>		Process	<input type="checkbox"/>
Material	Materials		Packing/Shipping/Labelin	<input type="checkbox"/>	Test
s	<input type="checkbox"/>		g	Equipmen	t
<input type="checkbox"/>	Assembl			t	coverage
Wafer	y				
Fab	Location				
Location					

**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  $\mu\text{m}^2$ , 1290  $\mu\text{m}^2$ , 1520  $\mu\text{m}^2$  and 1900  $\mu\text{m}^2$  to 910  $\mu\text{m}^2$ , 1220  $\mu\text{m}^2$ , 1440  $\mu\text{m}^2$  and 1780  $\mu\text{m}^2$ , 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](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](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](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](mailto: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.

You have received this email because you are a designated contact or subscribed to Nexperia Quality Notifications. Nexperia shall not be held liable if this Notification is not correctly distributed within your organization.

This message has been automatically distributed. Please do not reply.

If you would like to adjust your mailing preferences, please [click here](#).



SalesItem_name	SalesItem_orderablePartNumber	SalesOrder_customerPartNumber	ProductType_name	BasicType_description	PackageOutlineVersion_description	PackageType_description	SalesItem_state	SalesItem_customerSpecificIndicator	BusinessLine_description
934662883115	PMEG10020AELP-QX		PMEG10020AELP-Q	100 V, 2 A low leakage cur	SOD128	FlatPower	RFS	No	Bipolar Discretet
934669175115	PMEG10020AELPX	PMEG10020AELPX	PMEG10020AELP	100 V, 2 A low leakage cur	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662879115	PMEG10030ELP-QX		PMEG10030ELP-Q	100 V, 3 A low leakage cur	SOD128	FlatPower	RFS	No	Bipolar Discretet
934068902115	PMEG10030ELPX	934068902115	PMEG10030ELP	100 V, 3 A low leakage cur	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061471115	PMEG3010BEP,115	PMEG3010BEP,115	PMEG3010BEP	1 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662878115	PMEG3010BEP-QX		PMEG3010BEP-Q	1 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061473115	PMEG3020BEP,115	PMEG3020BEP,115	PMEG3020BEP	2 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662877115	PMEG3020BEP-QX		PMEG3020BEP-Q	2 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934063201115	PMEG3020DEP,115	PMEG3020DEP,115	PMEG3020DEP	2 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662876115	PMEG3020DEP-QX		PMEG3020DEP-Q	2 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061475115	PMEG3030BEP,115	PMEG3030BEP,115	PMEG3030BEP	3 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662875115	PMEG3030BEP-QX		PMEG3030BEP-Q	3 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061482115	PMEG4010EP,115	PMEG4010EP,115	PMEG4010EP	1 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662873115	PMEG4010EP-QX		PMEG4010EP-Q	1 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934065459115	PMEG4010ETP,115	PMEG4010ETP,115	PMEG4010ETP	40 V, 1 A low VF MEGA Sci	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662872115	PMEG4010ETP-QX		PMEG4010ETP-Q	40 V, 1 A low VF MEGA Sci	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061483115	PMEG4020EP,115	PMEG4020EP,115	PMEG4020EP	2 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662871115	PMEG4020EP-QX		PMEG4020EP-Q	2 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934065459115	PMEG4020ETP,115	PMEG4020ETP,115	PMEG4020ETP	40 V, 2 A low VF MEGA Sci	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662870115	PMEG4020ETP-QX		PMEG4020ETP-Q	40 V, 2 A low VF MEGA Sci	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061484115	PMEG4030EP,115	PMEG4030EP,115	PMEG4030EP	3 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662869115	PMEG4030EP-QX		PMEG4030EP-Q	3 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934065471115	PMEG4030ETP,115	PMEG4030ETP,115	PMEG4030ETP	40 V, 3 A low VF MEGA Sci	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662868115	PMEG4030ETP-QX		PMEG4030ETP-Q	40 V, 3 A low VF MEGA Sci	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061478115	PMEG6010EP,115	PMEG6010EP,115	PMEG6010EP	1 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662865115	PMEG6010EP-QX		PMEG6010EP-Q	1 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662864115	PMEG6020AELP-QX		PMEG6020AELP-Q	60 V, 2 A low leakage curr	SOD128	FlatPower	RFS	No	Bipolar Discretet
934069174115	PMEG6020AELPX	934069174115	PMEG6020AELP	60 V, 2 A low leakage curr	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061479115	PMEG6020EP,115	PMEG6020EP,115	PMEG6020EP	2 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662863115	PMEG6020EP-QX		PMEG6020EP-Q	2 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934066839115	PMEG6020ETP,115	PMEG6020ETP,115	PMEG6020ETP	High-temperature 60 V, 2	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662862115	PMEG6020ETP-QX		PMEG6020ETP-Q	High-temperature 60 V, 2	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662861115	PMEG6030ELP-QX		PMEG6030ELP-Q	60 V, 3 A low leakage curr	SOD128	FlatPower	RFS	No	Bipolar Discretet
934068901115	PMEG6030ELPX	934068901115	PMEG6030ELP	60 V, 3 A low leakage curr	SOD128	FlatPower	RFS	No	Bipolar Discretet
934061481115	PMEG6030EP,115	PMEG6030EP,115	PMEG6030EP	3 A low VF MEGA Schottky	SOD128	FlatPower	RFS	Yes	Bipolar Discretet
934662860115	PMEG6030EP-QX		PMEG6030EP-Q	3 A low VF MEGA Schottky	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662859115	PMEG6030ETP-QX		PMEG6030ETP-Q	High-temperature 60 V, 3	SOD128	FlatPower	RFS	No	Bipolar Discretet
934067348115	PMEG6030ETPX	PMEG6030ETPX	PMEG6030ETP	High-temperature 60 V, 3	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662858115	PMEG6030EVP-QX		PMEG6030EVP-Q	High-temperature 60 V, 3	SOD128	FlatPower	RFS	No	Bipolar Discretet
934067592115	PMEG6030EVPX	PMEG6030EVPX	PMEG6030EVP	High-temperature 60 V, 3	SOD128	FlatPower	RFS	No	Bipolar Discretet
934662857115	PMEG6045ETP-QX		PMEG6045ETP-Q	High-temperature 60 V, 4	SOD128	FlatPower	RFS	No	Bipolar Discretet
934067593115	PMEG6045ETPX	PMEG6045ETPX	PMEG6045ETP	High-temperature 60 V, 4	SOD128	FlatPower	RFS	No	Bipolar Discretet