



**Product Change Notification**

**CN-202108003F**

**Issue date:** 29 Oct 2021

**Effective date:** 10 Feb 2022

Dear

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.



**New mold compound and copper wire in package SOT89**

**Change Category**

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

**Details of this change**

Scheduled changes affect product types in SOT89 package only.

- (1) The leadframe will be changed to a new design, using whole area adhesion enhanced silver plating.
- (2) A new mold compound material will be introduced.
- (3) A new die attach glue material will be introduced
- (4) The bond wire material will be changed from gold (Au) to copper (Cu). Gold wire remains qualified for supply security reasons only.

Old product: wire material is Au (with currently used mold compound, leadframe design and glue material)

Changed product: wire material is Cu (with new mold compound material, changed leadframe design and new glue material)

Reliability qualification and full electrical characterization over temperature have been performed. No change on thermal behavior or mechanical dimensions. Electrical parameters remain unchanged (in specification and with the same distribution).

PCN-DeQuMaNexperiaCN-202108003F.xlsm: <https://qcm.nexperia.com/Document/DOC-520732/PCN-DeQuMaNexperiaCN-202108003F.xlsm>

PCN-FORMNexperiaCN-202108003F.xlsm: <https://qcm.nexperia.com/Document/DOC-520731/PCN-FORMNexperiaCN-202108003F.xlsm>

SelfQualificationReportCN-202108003F.pdf: <https://qcm.nexperia.com/Document/DOC-520730/SelfQualificationReportCN-202108003F.pdf>

### **Why do we implement this change?**

(1) + (2) Enhancing the mechanical stability of the package, especially regarding delamination

(3) End of supply of old glue material. The current material is discontinued by the supplier. No production with the old material will be possible from July 2022 onwards.

(4) Aligning with world technology standards, Nexperia continues to introduce copper wire for plastic SMD packages. Copper wire shows enhanced mechanical properties.

### **Identification of affected products**

Top Side Marking

Changed products can be identified by date code after implementation.

## **Management summary**

Please note the urgency to implement the changes announced herein until June 30 2022 latest.

## **Product availability**

### **Production**

Planned first shipment: 31 Jan 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

No impact to existing datasheet

### Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 28 Nov 2021. Lack of acknowledgement of the PCN constitutes acceptance of the change.

## 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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933605990115	BZV49-C13,115	BZV49-C13,115
933606000115	BZV49-C15,115	BZV49-C15,115
933606010115	BZV49-C16,115	BZV49-C16,115
933606020115	BZV49-C18,115	BZV49-C18,115
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