



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

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.

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.

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SalesItem_name	SalesItem_orderablePartNumber	SalesOrder_customerPartNumber	ProductType_name	BasicType_description	PackageOutlineVersion_description	PackageType_description	SalesItem_status	SalesItem_discontinuationType	SalesItem_availability	SalesItem_source	SalesItem_lastTimeBuyDate	SalesItem_lastTimeShipDate	SalesItem_customersSpecificIndicator	Replacement_SalesItem_orderablePartNumber	Replacement_SalesItem_name	Replacement_ProductType_name	Replacement_BasicType_description	BusinessLine_description
933605960115	BZV49-C10,115	BZV49-C10,115	BZV49-C10	Voltage regulator diodes	SOT89	MPT3	RFS						No					Bipolar Discretes
933605970115	BZV49-C11,115		BZV49-C11	Voltage regulator diodes	SOT89	MPT3	RFS						No					Bipolar Discretes
933605980115	BZV49-C12,115	BZV49-C12,115	BZV49-C12	Voltage regulator diodes	SOT89	MPT3	RFS						No					Bipolar Discretes
933605990115	BZV49-C13,115	BZV49-C13,115	BZV49-C13	Voltage regulator diodes	SOT89	MPT3	RFS						No					Bipolar Discretes
933606000115	BZV49-C15,115		BZV49-C15	Voltage regulator diodes	SOT89	MPT3	RFS						No					Bipolar Discretes

				(BISS) transistor														
934059 011115	PBSS304NX,115	PBSS304NX,115	PBSS304 NX	60 V, 4.7 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934059 011146	PBSS304NXZ		PBSS304 NX	60 V, 4.7 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934059 017115	PBSS304PX,115	PBSS304PX,115	PBSS304 PX	60 V, 4.2 A PNP low V_CEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934059 012115	PBSS305NX,115	PBSS305NX,115	PBSS305 NX	80 V, 4.6 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934059 018115	PBSS305PX,115		PBSS305 PX	80 V, 4.0 A PNP low V_CEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934059 013115	PBSS306NX,115		PBSS306 NX	100 V, 4.5 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934059 019115	PBSS306PX,115	PBSS306PX,115	PBSS306 PX	100 V, 3.7 A PNP low V_CEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934063 402115	PBSS4021NX,11 5	PBSS4021NX,11 5	PBSS402 1NX	20 V, 7 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934063 403115	PBSS4021PX,11 5	PBSS4021PX,115	PBSS402 1PX	20 V, 6.2 A PNP low V_CEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934063 406115	PBSS4032NX,11 5	PBSS4032NX,11 5	PBSS403 2NX	30 V, 4.7 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934063 407115	PBSS4032PX,11 5	PBSS4032PX,115	PBSS403 2PX	30 V, 4.2 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934063 404115	PBSS4041NX,11 5	PBSS4041NX,11 5	PBSS404 1NX	60 V, 6.2 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934063 405115	PBSS4041PX,11 5	PBSS4041PX,115	PBSS404 1PX	60 V, 5 A PNP low VCEsat	SOT89	MPT3	RFS							No				Bipolar Discretes

				(BISS) transistor														
934057 967115	PBSS4250X,115	PBSS4250X,115	PBSS425 OX	50 V, 2 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934057 967135	PBSS4250X,135		PBSS425 OX	50 V, 2 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934057 107135	PBSS4320X,135	PBSS4320X,135	PBSS432 OX	20 V, 3 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 036115	PBSS4330X,115	PBSS4330X,115	PBSS433 OX	30 V, 3 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 036135	PBSS4330X,135		PBSS433 OX	30 V, 3 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 628115	PBSS4350X,115	PBSS4350X,115	PBSS435 OX	50 V, 3 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 628135	PBSS4350X,135		PBSS435 OX	50 V, 3 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 628146	PBSS4350X,146		PBSS435 OX	50 V, 3 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 628147	PBSS4350X,147		PBSS435 OX	50 V, 3 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934660 028135	PBSS4360XF	PBSS4360XF	PBSS436 OX	60 V, 3 A NPN low VCEsat BISS transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934660 028115	PBSS4360XX	PBSS4360XX	PBSS436 OX	60 V, 3 A NPN low VCEsat BISS transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 209135	PBSS4480X,135	PBSS4480X,135	PBSS448 OX	80 V, 4 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934065 152135	PBSS4480X/DG, 135		PBSS448 OX/DG	80 V, 4 A NPN low VCEsat	SOT89	MPT3	RFS							No				Bipolar Discretes

				(BISS) transistor														
934058 209146	PBSS4480XZ	PBSS4480XZ	PBSS448 OX	80 V, 4 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 128135	PBSS4520X,135		PBSS452 OX	20 V, 5 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934057 105135	PBSS4540X,135	PBSS4540X,135	PBSS454 OX	40 V, 5 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 629115	PBSS5250X,115	PBSS5250X,115	PBSS525 OX	50 V, 2 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 629135	PBSS5250X,135		PBSS525 OX	50 V, 2 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 629146	PBSS5250XZ		PBSS525 OX	50 V, 2 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934057 106135	PBSS5320X,135	PBSS5320X,135	PBSS532 OX	20 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 037115	PBSS5330X,115		PBSS533 OX	30 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 037135	PBSS5330X,135		PBSS533 OX	30 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 037147	PBSS5330XZ		PBSS533 OX	30 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 948115	PBSS5350X,115	PBSS5350X,115	PBSS535 OX	50 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 948135	PBSS5350X,135		PBSS535 OX	50 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934055 948146	PBSS5350X,146		PBSS535 OX	50 V, 3 A PNP low VCEsat	SOT89	MPT3	RFS							No				Bipolar Discretes

				(BISS) transistor														
934055 948147	PBSS5350X,147		PBSS535 OX	50 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934660 029135	PBSS5360XF	PBSS5360XF	PBSS536 OX	60 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934660 029115	PBSS5360XX	PBSS5360XX	PBSS536 OX	60 V, 3 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 211135	PBSS5480X,135		PBSS548 OX	80 V, 4 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 211146	PBSS5480XZ	PBSS5480XZ	PBSS548 OX	80 V, 4 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934058 149135	PBSS5520X,135	PBSS5520X,135	PBSS552 OX	20 V, 5 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934057 104135	PBSS5540X,135	PBSS5540X,135	PBSS554 OX	40 V, 5 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934057 975135	PBSS8110X,135	PBSS8110X,135	PBSS811 OX	100 V, 1 A NPN low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes
934057 976135	PBSS9110X,135	PBSS9110X,135	PBSS911 OX	100 V, 1 A PNP low VCEsat (BISS) transistor	SOT89	MPT3	RFS							No				Bipolar Discretes