nexperia

Product Change Notification

Issue date: 29 Aug 2022

Effective date: 11 Dec 2022

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.



SOT89 Introduction of copper wire, new leadframe design and new assembly materials

Change Category [] Wafer Fab Process [] Wafer Fab Material s [] Wafer Fab	[] Assembl y Process [X] Assembl y Materials [] Assembl y	 Product Marking Mechanical Specification Packing/Shipping/Labelin 	[] Test Location [] Test Process [] Test Equipmen t	[] Design [] Errata [] Electrical spec./Tes t coverage
Fab) La antian			

Details of this change

Location

Location

CN-202206004F

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) New mold compound materials 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-202206004F.xlsm: https://qcm.nexperia.com/Document/DOC-542686/PCN-DeQuMaNexperiaCN-202206004F.xlsm

PCN-FORMNexperiaCN-202206004F.xlsm: https://qcm.nexperia.com/Document/DOC-542685/PCN-FORMNexperiaCN-202206004F.xlsm

SelfQualificationReportCN-202206004F.pdf: https://qcm.nexperia.com/Document/DOC-542684/SelfQualificationReportCN-202206004F.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.

(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.

Product availability

Production

Planned first shipment: 01 Dec 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 Sep 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: 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.

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Salesitem_name 934061421115 934061418115 934661485135 934061419115 934061422115 934071211135	Salesitem_orderablePartNumber PBHV8115X,115 PBHV8540X,115 PBHV8550XF PBHV95040X,115 PBHV95115X,115 PBHV9540XF	SalesOrder_customerPartNumber 934061421115 934061418115 PBHV8550XF 934061419115 PBHV95115X,115	ProductType_name PBHV8115X PBHV8540X PBHV8550X PBHV9040X PBHV90115X PBHV9540X	BasicType_description 150 V; J. A NPN high-voltage low VCEsat (BISS) transistor 500 V; D. S. A NP high-voltage low VCEsat (BISS) transistor 500 V; J. So m A NP high-voltage low VCEsat (BISS) transistor 00 V; D. 25 A PN high-voltage low VCEsat (BISS) transistor 150 V; J. A PNP high-voltage low VCEsat (BISS) transistor 400 V; D. 5 A PNP high-voltage low VCEsat (BISS) transistor	PackageOutlineVersion_description SOT89 SOT89 SOT89 SOT89 SOT89 SOT89 SOT89	PackageType_description MPT3 MPT3 MPT3 MPT3 MPT3 MPT3 MPT3	Salesitem_state RFS RFS RFS RFS RFS RFS	Salesitem_customerSpecificindicator No No No No No	BusinessLine_description Bipolar Discretes Bipolar Discretes Bipolar Discretes Bipolar Discretes Bipolar Discretes Bipolar Discretes
934071211135	PBHV9540XF		PBHV9540X	400 V, 0.5 A PNP high-voltage low VCEsat (BISS) transistor	SOT89	MPT3	RFS	No	Bipolar Discretes
934071211115	PBHV9540XX		PBHV9540X	400 V, 0.5 A PNP high-voltage low VCEsat (BISS) transistor	SOT89	MPT3	RFS	No	Bipolar Discretes