



Product Change Notification **CN-202212010F**

Issue date: 09 Jan 2023
Effective date: 23 Apr 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 back side metallization thickness and introduction of new EMCs in SOT23 - wave 3

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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Mechanical | <input type="checkbox"/> | Location Errata |
| Wafer | Assembl | | Specification | <input type="checkbox"/> | Test |
| Fab | y | <input type="checkbox"/> | | Process | Electrical |
| Material | Materials | | Packing/Shipping/Labelin | <input type="checkbox"/> | spec./Tes |
| s | <input type="checkbox"/> | | g | Equipmen | t |
| <input type="checkbox"/> | Assembl | | | t | coverage |
| Wafer | y | | | | |
| Fab | Location | | | | |
| Location | | | | | |

Details of this change

Schedule changes affect product types in SOT23 package only.

- (1) The back side metallization thickness will be changed from 2.25 µm to 1.75 µm.
- (2) Introduction of additional EMCs (epoxy mold compounds) GR646CHN, CV4112B and E500HK.
- (3) The bond wire material will be changed from gold (Au) to copper (Cu) for some selected product types.

Current Products

- (1) back side metallization thickness 2.25 µm
- (2) epoxy mold compound: GR646 and 3400FPG (where affected)
- (3) Au wire (where affected)

Changed Products

- (1) back side metallization thickness 1.75 µm
- (2) epoxy mold compound: GR646, 3400FPG (where affected), CV4112B, E500HK and GR646CHN.
- (3) Cu wire

Gold wire remains qualified for supply security reason.

SQR_202212010F.pdf: https://qcm.nexperia.com/Document/DOC-548489/SQR_202212010F.pdf

CN-202212010F_PCN-FORM-Rev_5_0_2.xlsm:
https://qcm.nexperia.com/Document/DOC-548470/CN-202212010F_PCN-FORM-Rev_5_0_2.xlsm

CN-202212010F_PCN-Delta-Qualification-Matrix-ZVEI-5_0_14.xlsm:
https://qcm.nexperia.com/Document/DOC-548469/CN-202212010F_PCN-Delta-Qualification-Matrix-ZVEI-5_0_14.xlsm

Why do we implement this change?

- (1) To increase efficiency of volume production.
- (2) Aligning with world technology standards, Nexperia continues to introduce copper wire for plastic SMD packages. Copper wire shows enhanced mechanical properties.
- (3) To increase flexibility and volume ramp-up.

Identification of affected products

Changed products can be identified by date code after implementation.

Product availability

Production

Planned first shipment: 01 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

No impact to existing datasheet

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 08 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

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	SalesItem_orderablePartNumber	SalesOrder_customerPartNumber	ProductType_name	BasicType_description	PackageOutlineVersion_description	PackageType_description	SalesItem_state	SalesItem_customerSpecificIndicator	BusinessLine_description
933589500215	BC807,215	BC807,215	BC807	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
933628560215	BC807-16,215	BC807-16,215	BC807-16	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
933628560235	BC807-16,235		BC807-16	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663656215	BC807-16-QR		BC807-16-Q	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663656235	BC807-16-QVL		BC807-16-Q	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
933628570215	BC807-25,215	BC807-25,215	BC807-25	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
933628570235	BC807-25,235	933628570235	BC807-25	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663655215	BC807-25-QR		BC807-25-Q	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663655235	BC807-25-QVL		BC807-25-Q	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
933628580215	BC807-40,215	BC807-40,215	BC807-40	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
933628580235	BC807-40,235	933628580235	BC807-40	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663627215	BC807-40-QR		BC807-40-Q	small signal transistor	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663627235	BC807-40-QVL		BC807-40-Q	small signal transistor	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663657215	BC807-QR		BC807-Q	45 V, 500 mA PNP general	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934661532215	PESD2ETH100-TR	PESD2ETH100-TR	PESD2ETH100-T	ESD protection for In-vehi	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934661104215	PESD2ETH1G-TR	PESD2ETH1G-TR	PESD2ETH1G-T	ESD protection for In-vehi	SOT23	TO-236AB	RFS	No	Bipolar Discretes
933816490215	PMBTA56,215	PMBTA56,215	PMBTA56	PNP general purpose trans	SOT23	TO-236AB	RFS	No	Bipolar Discretes
933816490235	PMBTA56,235		PMBTA56	PNP general purpose trans	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663610215	PMBTA56-QR		PMBTA56-Q	PNP general purpose trans	SOT23	TO-236AB	RFS	No	Bipolar Discretes
934663610235	PMBTA56-QVL		PMBTA56-Q	PNP general purpose trans	SOT23	TO-236AB	RFS	No	Bipolar Discretes