



Product Change Notification **CN-202402020F**

Issue date: 08 May 2024
Effective date: 20 Aug 2024
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.



Release of Cu wire for SOD123F

Change Category

- Wafer
- Fab
- Process
- Wafer
- Fab
- Material
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- Wafer
- Fab
- Location
- Assembl
- y
- Process
- [X] Assembl
- y
- Materials
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- Assembl
- y
- Location
- [] Product Marking
- [] Mechanical
- [] Specification
- [] Packing/Shipping/Labelin
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- [] Test
- Location
- [] Test
- Process
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- [] Design
- [] Errata
- [] Electrical
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Details of this change

Scheduled changes affect product types in SOD123F package only. The bond wire material will be changed from gold (Au) to copper (Cu). New mold compound materials will be introduced. Gold wire remains qualified for supply security reasons only.

Old product: Wire material is Au (with currently used mold compound)

Changed product: Wire material is Cu (with new mold compound 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-FORM-Rev_5_0_2-CN-202402020F.xlsm:

https://qcm.nexperia.com/Document/DOC-573038/PCN-FORM-Rev_5_0_2-CN-202402020F.xlsm

PCN-Delta-Qualification-Matrix-ZVEI-5_0_16-CN-202402020F.xlsm:

https://qcm.nexperia.com/Document/DOC-573023/PCN-Delta-Qualification-Matrix-ZVEI-5_0_16-CN-202402020F.xlsm

SelfQualificationReportCN-202402020F.pdf:

<https://qcm.nexperia.com/Document/DOC-573022/SelfQualificationReportCN-202402020F.pdf>

Why do we implement this change?

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

Changed products can be identified by date code after implementation.

Management summary

SOD123F Introduction of copper wire and new assembly materials

Product availability

Production

Planned first shipment: 19 Aug 2024

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 07 Jun 2024. 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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934666966115	PMEG2015EH-QX	PMEG2015EH-QX	PMEG2015EH-Q	20 V, 1.5 A very low V_F M SOD123F	SOD2	RFS	No	Bipolar Discretes
934059026115	PMEG2020EH,115	PMEG2020EH,115	PMEG2020EH-Q	20 V, 2 A very low V_F MEC SOD123F	SOD2	RFS	No	Bipolar Discretes
934666962115	PMEG2020EH-QX	PMEG2020EH-QX	PMEG2020EH-Q	20 V, 2 A very low V_F MEC SOD123F	SOD2	RFS	No	Bipolar Discretes
934059024115	PMEG3005EH,115	PMEG3005EH,115	PMEG3005EH	0.5 A very low VF MEGA Sc SOD123F	SOD2	RFS	No	Bipolar Discretes
934663933115	PMEG3005EH-QX	PMEG3005EH-QX	PMEG3005EH-Q	0.5 A very low VF MEGA Sc SOD123F	SOD2	RFS	No	Bipolar Discretes
934061054115	PMEG3010CEH,115	PMEG3010CEH,115	PMEG3010CEH	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934665371115	PMEG3010CEH-QX	PMEG3010CEH-QX	PMEG3010CEH-Q	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934059031115	PMEG3010EH,115	PMEG3010EH,115	PMEG3010EH	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934666964115	PMEG3010EH-QX	PMEG3010EH-QX	PMEG3010EH-Q	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934059277115	PMEG3015EH,115	PMEG3015EH,115	PMEG3015EH	30 V, 1.5 A ultra low VF ME SOD123F	SOD2	RFS	No	Bipolar Discretes
934664550115	PMEG3015EH-QX	PMEG3015EH-QX	PMEG3015EH-Q	30 V, 1.5 A ultra low VF ME SOD123F	SOD2	RFS	No	Bipolar Discretes
934059027115	PMEG3020EH,115	PMEG3020EH,115	PMEG3020EH	30 V, 2 A ultra low VF MEG SOD123F	SOD2	RFS	No	Bipolar Discretes
934064901115	PMEG3020EH-QX	PMEG3020EH-QX	PMEG3020EH-Q	30 V, 2 A ultra low VF MEG SOD123F	SOD2	RFS	No	Bipolar Discretes
934059025115	PMEG4005EH,115	PMEG4005EH,115	PMEG4005EH	0.5 A very low VF MEGA Sc SOD123F	SOD2	RFS	No	Bipolar Discretes
934663799115	PMEG4005EH-QX	PMEG4005EH-QX	PMEG4005EH-Q	0.5 A very low VF MEGA Sc SOD123F	SOD2	RFS	No	Bipolar Discretes
934061055115	PMEG4010CEH,115	PMEG4010CEH,115	PMEG4010CEH	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934664541115	PMEG4010CEH-QX	PMEG4010CEH-QX	PMEG4010CEH-Q	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934059032115	PMEG4010EH,115	PMEG4010EH,115	PMEG4010EH	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934664515115	PMEG4010EH-QX	PMEG4010EH-QX	PMEG4010EH-Q	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934061056115	PMEG6010CEH,115	PMEG6010CEH,115	PMEG6010CEH	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes
934664551115	PMEG6010CEH-QX	PMEG6010CEH-QX	PMEG6010CEH-Q	1 A very low VF MEGA Sch. SOD123F	SOD2	RFS	No	Bipolar Discretes