



## Advance Product Change Notification

201409017A

**Issue Date:** 22-Oct-2014

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For detailed information we invite you to view this notification online



# QUALITY

### Management Summary

Change of bond wire material from Au to Cu for transistors in SOT223 package.

#### Change Category

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

Change of bond wire from Au to Cu for transistors in SOT223 package

### Details of this Planned Change

Scheduled change affect some transistors in SOT223 package.

The bond wire material will be changed from gold (Au) to copper (Cu). Implementation of change to copper wire as given by implementation date below. Gold wire remains qualified for supply security reasons only.

Old product: Bond wire material is gold (Au).

Changed product: Bond wire material is copper (Cu) or gold (Au).

The design and materials of all other components will remain unchanged: die, die attach, mold compound and lead frame. Reliability qualification and full electrical characterizations will be performed. No change on thermal behavior or mechanical dimensions. Electrical parameters remain unchanged (in specification and with the same distribution).

#### Why do we Plan this Change

Aligning with world technology standards, NXP continues to introduce copper bonding wire for plastic SMD packages. Copper wire shows enhanced mechanical properties.

#### Identification of Affected Products

Top side marking

Products can be identified by different date code formats on package surface:

Products with gold (Au) wire have a 2-digit date code.

Products with copper (Cu) wire will have a 3-digit date code.

### Product Availability

#### Sample Information

Samples are available upon request

Sample requests shall start from acknowledgement of this APCN.

#### Production

Planned first shipment 02-Mar-2015

## Impact

no impact to the product's functionality anticipated.

### Data Sheet Revision

No impact to existing datasheet

### Disposition of Old Products

Existing inventory will be shipped until depleted

## Timing and Logistics

The Self Qualification Report will be ready on 05-Dec-2014.

The Final PCN is planned to be issued on: 05-Dec-2014.

Your acknowledgement of this change, conform JEDEC JESD46 D, is expected till 21-Nov-2014.

## Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

**Name** GA Customer Support

**e-mail address** DiscrQA.Helpdesk.GA-Products@nxp.com

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Customer Focus, Passion to Win.

NXP Quality Management Team.

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