



## Advance Product Change Notification

201410006A

**Issue Date:** 01-Nov-2014

Here's your personalized quality information concerning products Digi-Key purchased from NXP.

For detailed information we invite you to view this notification online



# QUALITY

### 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 to copper and release of 2nd mold compound in SOT323 and SOT363**

### Details of this Planned Change

Scheduled changes affect product types in SOT323 and SOT363 package only.

- (1) 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.
- (2) A second source mold compound supplier will be introduced for copper wire products.

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

Changed product: wire material is Cu (with currently used first and new second source mold compound supplier) or Au (with currently used mold compound suppliers)

The design and materials of all other components will remain unchanged: die, die attach, and lead frame. Reliability qualification and full electrical characterization over temperature are 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

- (1) Aligning with world technology standards, NXP continues to introduce copper wire for plastic SMD packages. Copper wire shows enhanced mechanical properties.
- (2) Following NXP company policy of second source material availability, a second source mold compound will be added to the BOM. The second source is already a well-established mold compound supplier for NXP GA discrete semiconductor products.

### Identification of Affected Products

Changed products can be identified by date code after implementation.

### Product Availability

#### Sample Information

Samples are available upon request

Samples can be ordered now and will be shipped after FPCN issue date.

#### Impact

No impact to the products' functionality anticipated.

## Disposition of Old Products

Existing inventory will be shipped until depleted

### Related Notifications

Notification	Issue Date	Effective Date	Title
201003008F	26-Mar-2010		Change of bond wire material from gold to copper in SOT23 package
201005007F	27-Aug-2010		Change of bond wire material from gold to copper in SOT23 package
201204012F01	12-May-2012	10-Aug-2012	Change of bond wire material from gold to copper in SOT23 package
201309012F01	107-May-2014	05-Aug-2014	Change of bond wire from Au to Cu and release of 2nd source mold compound in SOT323

### Timing and Logistics

The Self Qualification Report will be ready on 14-Nov-2014.

The Final PCN is planned to be issued on: 14-Nov-2014.

Your acknowledgement of this change, conform JEDEC JESD46 D, is expected till 01-Dec-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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NXP Quality Management Team.

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