

Final Product Change Notification

Issue Date:11-Jan-2015Effective Date:24-Apr-2015

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201412011F01



QUALITY

Management Summary

- Introduction (additional) Cu-wire bonding SO20 package in ASEN (Phase IV).
- Replace Au (gold) wire with Cu (copper) wire in bonding process.

Change Category

- [] Wafer Fab process [X] Assembly Process
- [] Wafer Fab materials [] Wafer Fab location
- [X] Assembly Materials [] Assembly Location

[] Product Marking [] Electrical spec./Test coverage [] Test Location [] Design

[] Mechanical Specification

[] Packing/Shipping/Labeling

Introduction of Cu-wire bonding for SO20 package (Phase IV)

Details of this Change

- Introduction of Cu-wire bonding for SO20 package. (Phase IV).

- Replace Au (gold) wire with Cu (copper) wire in bonding process of SO20 / SOT163 package at ASEN (NXP-ASE JV Assembly Plant Suzhou China).

Why do we Implement this Change

- Superior electrical resistivity and better thermal conductivity.
- Improved wire-sweep resistance based on mechanical strength.
- A stronger interconnect, which gives improved wire pull and ball shear performance.

- Slower intermetallic growth, due to the lower diffusion rate of copper to aluminium, which gives a more reliable interconnect at high temperature.

- Better electrical performance due to the higher conductivity of copper wire in comparison to gold wire.

- Aligning with world technology trends, NXP starts to introduce copper wire for plastic SMD packages. Copper wire shows enhanced mechanical properties.

- Increased environmental friendliness (eco-friendly).

Identification of Affected Products

- The changed products can be identified by backward traceability of their marking date code.

- No change in product top side marking.

Product Availability

Sample Information

Samples are available upon request

Samples request for limited quantities can be made via sample store Hong Kong (eSample Center).

Production

Planned first shipment 24-Apr-2015

Impact

no impact to the product's functionality anticipated. **Data Sheet Revision**

Existing inventory will be shipped until depleted

Related Notifications

Notification Issue Date Effective Date	Title
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201202018F01 05-Dec-2012 05-Mar-2013	Cu-wire bonding in APB and ASEN for SO14-16 packages
201208012F01 05-Dec-2012 05-Mar-2013	Cu-wire bonding in APB and ASEN for TSSOP14-16-20 packages
201304005F01 17-Apr-2013 16-Jul-2013	Cu-wire bonding in APB and ASEN for SO14-16 packages (Phase II)
201304006F01 17-Apr-2013 16-Jul-2013	Cu-wire bonding in APB and ASEN for TSSOP14-16-20 packages (Phase II)
201401003F01 15-Jun-2014 13-Sep-2014	Cu-wire bonding in APB and ASEN for TSSOP48-56 packages (Phase III)

Timing and Logistics

Your acknowledgement of this change, conform JEDEC JESD46 D, is expected till 10-Feb-2015.

Remarks

- No change to form, fit or function anticipated.

- No influence on quality or reliability anticipated.
- No change to datasheet anticipated.
- No change in ordering part number / 12NC.
- No change in product top side marking.

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:

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 Emile Busink

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Changed Orderable		Changed Part	Changed Part
Part#	Customer Part#	12NC	Description
74HC244D,652	74HC244D,652	933713420652	НС/НСТ
74HCT574D,653	74HCT574D,653	933715630653	НС/НСТ
74HCT244D,652	74HCT244D,652	933713430652	НС/НСТ
74HCT244D,652	74HCT244D,652	933713430652	НС/НСТ
74HCT244D,653	74HCT244D,653	933713430653	НС/НСТ
74HC374D,652	74HC374D,652	933713480652	НС/НСТ
74HC374D,653	74HC374D,653	933713480653	НС/НСТ
74HCT374D,653	74HCT374D,653	933713490653	НС/НСТ
74HC573D,652	74HC573D,652	933713560652	НС/НСТ
74HC573D,653	74HC573D,653	933713560653	НС/НСТ
74HCT573D,652	74HCT573D,652	933713570652	НС/НСТ
74HCT573D,653	74HCT573D,653	933713570653	НС/НСТ
74HC245D,652	74HC245D,652	933713580652	НС/НСТ
74HC245D,653	74HC245D,653	933713580653	НС/НСТ
74HCT245D,652	74HCT245D,652	933713590652	НС/НСТ
74HCT245D,653	74HCT245D,653	933713590653	НС/НСТ
74HC273D,652	74HC273D,652	933715440652	НС/НСТ
74HC273D,653	74HC273D,653	933715440653	НС/НСТ
74HC373D,652	74HC373D,652	933715470652	НС/НСТ
74HC373D,653	74HC373D,653	933715470653	НС/НСТ
74HC373D,653	74HC373D,653	933715470653	НС/НСТ
74HC541D,652	74HC541D,652	933715500652	НС/НСТ
74HC574D,652	74HC574D,652	933715520652	НС/НСТ
74HC574D,653	74HC574D,653	933715520653	НС/НСТ
74HCT373D,653	74HCT373D,653	933715580653	НС/НСТ
74HCT541D,652	74HCT541D,652	933715610652	НС/НСТ
74HCT541D,653	74HCT541D,653	933715610653	НС/НСТ
74HCT574D,652	74HCT574D,652	933715630652	НС/НСТ
74HC244D,653	74HC244D,653	933713420653	НС/НСТ