
PRODUCT CHANGE NOTICE

**Data Sheet and Manufacturing
Site Changes for Intersil
Product ISL45042***

**Refer to:
PCN11043**

Date: April 13, 2011

April 13, 2011

To: Our Valued Intersil Customer

Subject: **Data Sheet and Manufacturing Site Changes for Intersil Product ISL45042* – Taiwan Semiconductor Manufacturing Company (TSMC) Shanghai, China and Unisem (UNM) Ipoh, Malaysia**

This notice is to inform you that Intersil has qualified the Taiwan Semiconductor Manufacturing Company (TSMC) Shanghai, China and Unisem (UNM) Ipoh, Malaysia facilities as alternate sites for performing wafer fabrication, package assembly, and package electrical test of the listed ISL45042* products. The data sheet has been updated to align the specification with the characteristics of the product (silicon) fabricated at the current and TSMC facility. This action will expand current capabilities and capacities to optimize Intersil's ability to meet customer delivery requirements. The updated data sheet accompanies this notice as a separate attachment with the changes shaded in **yellow** and is available on the Intersil web site at <http://www.intersil.com/data/fn/fn6072.pdf>.

Product affected: **ISL45042IRZ ISL45042IRZ-T ISL45042IRZ-TK**

The TSMC China facility is ISO 9001:2000 and ISO/TS 16949:2002 certified and currently qualified as a supplier for wafer fabrication of Intersil products. The UNM Malaysia facility is ISO 9001:2000 and ISO/TS 16949:2002 certified and currently qualified as a supplier for performing assembly and test operations for Intersil packaged products.

The product and site qualification plan is designed using JEDEC and other applicable industry standards to confirm form, fit, function, and interchangeability of product. A summary of the qualification results is included for reference. There will be no change in the package outline drawing (POD) or moisture sensitivity level (MSL).

Product affected by this change is identifiable via Intersil's internal traceability system and by the assembly site code (country of assembly) marked on the devices. The site code for product assembled at the Unisem (UNM) facility is "B".

Intersil will take all necessary actions to conform to customer requirements and to ensure the continued high quality and reliability of Intersil products being supplied. Customers may expect to receive product from either the current or the newly qualified sites beginning 90-days from the date of this notification or earlier with approval.

If you have concerns with this change notice, Intersil must hear from you promptly. Please contact the nearest Intersil Sales Office or call the Intersil Corporate line at 1-888-468-3774, in the United States, or 1-321-724-7143 outside of the United States.

Regards,



Jon Brewster
Intersil Corporation

PCN10143

CC: J. Touvell J. McNamara B. Silva A. Salem

PCN11043 - Reliability Qualification Summary

Legend

Fail	Warning	Pass	QBE	Waived	NA
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	ISL45041IRZ	ISL45042IRZ	ISL45043IRZ	Comments
Reliability Test	fabricated using TS.35-(HV-DDD) 8 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	fabricated using TS.35-(HV-DDD) 8 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	fabricated using TS.35-(HV-DDD) 10 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	
High Temperature Operating Life	SRN090350 Rev 0 0/80 125C 2500hr completed 2010-07-07 disposition=A	SRN090350 Rev 0 0/80 125C 2500hr completed 2010-07-07 disposition=A	SRN090350 Rev 0 0/80 125C 2500hr completed 2010-07-07 disposition=A	ISL45041/ISL24202/ISL45043: Unit delta analysis should be performed on all biased reliability tests. The data should demonstrate less than 10% total parametric shift. In the case of trim parameters, there should be less than one LSB shift. QBE: Qualified by extension from ISL24211.
Storage Life	SRN090350 Rev 0 0/78 150C BAKE AND REFLOW 1000hr completed 2010-03-08 disposition=A	SRN090350 Rev 0 0/78 150C BAKE AND REFLOW 1000hr completed 2010-03-08 disposition=A	SRN090350 Rev 0 0/78 150C BAKE AND REFLOW 1000hr completed 2010-03-08 disposition=A	ISL45041/ISL24202/ISL45043: QBE: Qualified by extension from ISL24211 in 10 lead 3x3mm TDFN.
EEPROM Retention	SRN090350 Rev 0 0/240 125C 1000hr completed 2010-07-20 disposition=A	SRN090350 Rev 0 0/240 125C 1000hr completed 2010-07-20 disposition=A	SRN090350 Rev 0 0/240 125C 1000hr completed 2010-07-20 disposition=A	ISL45041/ISL24202/ISL45043: QBE: Qualified by extension from ISL24211 in 10 lead 3x3mm TDFN.

PCN11043 - Reliability Qualification Summary – cont.

Reliability Test	ISL45041IRZ fabricated using TS.35-(HV-DDD) 8 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	ISL45042IRZ fabricated using TS.35-(HV-DDD) 8 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	ISL45043IRZ fabricated using TS.35-(HV-DDD) 10 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	Comments
EEPROM Endurance	SRN090350 Rev 0 0/240 25C 30K Cycles completed 2009-12-13 disposition=A	SRN090350 Rev 0 0/240 25C 30K Cycles completed 2009-12-13 disposition=A	SRN090350 Rev 0 0/240 25C 30K Cycles completed 2009-12-13 disposition=A	ISL45041/ISL24202/ISL45043: QBE: Qualified by extension from ISL24211 in 10 lead 3x3mm TDFN.
Bond Pull Integrity	SRN090350 Rev 0 0/6 175C 96hr completed 2010-02-24 disposition=A	SRN090350 Rev 0 0/6 175C 96hr completed 2010-02-24 disposition=A	SRN090350 Rev 0 0/6 175C 96hr completed 2010-02-24 disposition=A	ISL45041/ISL24202/ISL45043: QBE: Qualified by extension from ISL24211 in 10 lead 3x3mm TDFN.
Moisture Sensitivity Classification	MRT10013 MSL=1@260C (Pb Free) Approved=Yes	MRT10013 MSL=1@260C (Pb Free) Approved=Yes	MRT10013 MSL=1@260C (Pb Free) Approved=Yes	ISL45041/ISL24202/ISL45043: QBE: Qualified by extension from ISL24211 in 10 lead 3x3mm TDFN.
Unbiased HAST	SRN090350 Rev 0 0/77 130C, 85%RH PRECOND L1 PBFREE 96hr completed 2010-03-02 disposition=A	SRN090350 Rev 0 0/77 130C, 85%RH PRECOND L1 PBFREE 96hr completed 2010-03-02 disposition=A	SRN090350 Rev 0 0/77 130C, 85%RH PRECOND L1 PBFREE 96hr completed 2010-03-02 disposition=A	ISL24201/202/203: QBE: Qualified by extension from ISL24211 in 10 lead 3x3mm TDFN.

PCN11043 - Reliability Qualification Summary – cont.

Reliability Test	ISL45041IRZ fabricated using TS.35-(HV-DDD) 8 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	ISL45042IRZ fabricated using TS.35-(HV-DDD) 8 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	ISL45043IRZ fabricated using TS.35-(HV-DDD) 10 LEAD 3X3 TDFN using SG770HCD, HENKEL A8290, 1.0 MIL AU wire at UNM Plan Rel: 2010-11-25	Comments
Temperature Cycle	SRN090350 Rev 0 0/78 -40C TO 125C PRECOND L1 PBFREE 1000cy completed 2010-03-16 disposition=A	SRN090350 Rev 0 0/78 -40C TO 125C PRECOND L1 PBFREE 1000cy completed 2010-03-16 disposition=A	SRN090350 Rev 0 0/78 -40C TO 125C PRECOND L1 PBFREE 1000cy completed 2010-03-16 disposition=A	ISL24201/202/203: QBE: Qualified by extension from ISL24211 in 10 lead 3x3mm TDFN.
Product Electrical Characterization	Performed by Product Engineering	Performed by Product Engineering	Performed by Product Engineering	
ESD Characterization	Performed by Product Engineering HBM = 7000V MM = 250V CDM = 1500V	Performed by Product Engineering HBM = 7000V MM = 300V CDM = 2000V	Performed by Product Engineering HBM = 7000V MM = 300V CDM = 2000V	
Latch-up Characterization	Performed by Product Engineering Latchup Level A Class II	Performed by Product Engineering Latchup Level A Class II	Performed by Product Engineering Latchup Level A Class II	