PRODUCT CHANGE NOTICE

Data Sheet and Wafer Fabrication Site Change for Intersil Product ISL45041*

Refer to:
PCN10127

Date: December 17, 2010

December 17, 2010

To: Our Valued Intersil Customer

Subject: **Data Sheet and Wafer fabrication Site Change for Intersil Product ISL45041* –** *Taiwan Semiconductor Manufacturing Company (TSMC) Shanghai, China*

This notice is to inform you that Intersil has qualified the Taiwan Semiconductor Manufacturing Company (TSMC) facility in Shanghai, China as an alternate site for performing wafer fabrication of the listed ISL45041* 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. As of this notice, the data sheet updates and product qualification activities are complete. The updated data sheet is available on the Intersil web site at http://www.intersil.com/data/fn/fn6189.pdf.

Product affected: **ISL45041IRZ ISL45041IRZ-T**

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 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 part marking, package outline drawing (POD), or moisture sensitivity level (MSL). Product affected by this change is identifiable via Intersil's internal traceability system.

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

Jon Brewster
Intersil Corporation

PCN10127

CC: J. Touvell J. McNamara B. Silva F. Hamilton A. Salem H. Babcock D. Decrosta

PCN10127 - Reliability Qualification Summary

Legend

Fail	Warning	Pass	QBE	Waived	NA

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
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.**

PCN10127 - 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.**

PCN10127 - 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	