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# **PRODUCT CHANGE NOTICE**

**Alternate Material Set for  
Assembly of the Listed  
Intersil ISL8800\* SOT23  
Packaged Products**

**Refer to:  
PCN11006**

**Date: April 4, 2011**

April 4, 2011

To: Our Valued Intersil Customer

Subject: **Alternate Material Set for Assembly of the Listed Intersil ISL8800\* SOT23 Packaged Products – Carsem, Ipoh Malaysia (CAM)**

This notice is to inform you that Intersil has qualified an alternate material set for assembly of the listed ISL8800\* SOT23 (Small Outline Transistor) packaged products. This action will expand current capabilities and capacities to optimize Intersil's ability to meet customer's delivery requirements. The product and package specific qualification activities are complete.

The Carsem (CAM) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified and currently qualified as a supplier to Intersil for assembly of SOT23 packaged products using both the current and new material set. The package outline drawing (POD) will require minor changes to three dimensions and is included for reference. There will be no change in the moisture sensitivity level (MSL). The qualified material set combinations are as follows:

Material Set	Current	New
Mold Compound	Hitachi CEL-9220HF13	Sumitomo EME-G600C
Die Attach	Ablebond 8006NS / Ablebond 84-3J	Ablebond 8006NS
Bond Wire	1.0 mil Gold (Au)	1.0 mil Gold (Au)
Lead Frame	A42 (4 mils)	C194 High Density (5 mils)

The assembly qualification plan was designed using JEDEC and other applicable industry standards to confirm there is no impact to form, fit, function, or interchangeability of the product. A summary of the qualification results are attached for reference. The remainder of the manufacturing operations (wafer fabrication, package level electrical testing, shipment, etc.) will continue to be processed to previously established conditions and systems. Product affected by this change is identifiable via Intersil's internal traceability system.

Intersil will take all necessary actions to conform to agreed upon customer requirements and to ensure the continued high quality and reliability of Intersil products being supplied. Customers may expect to receive product assembled using either the current or the newly qualified material set beginning *ninety* 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

PCN11006

CC: J. Touvell F. Tsng D. Decrosta D. Foster S. Nadarajah N. Luong L. Van De Perre

## PCN11006 – Reliability Summary

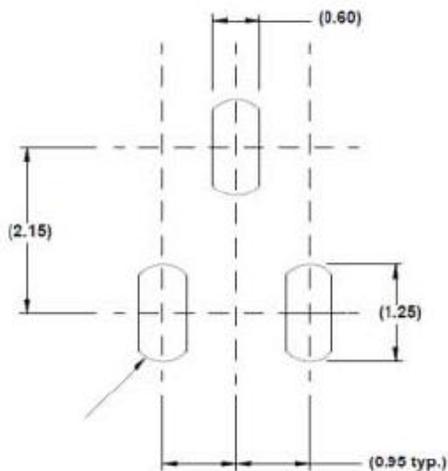
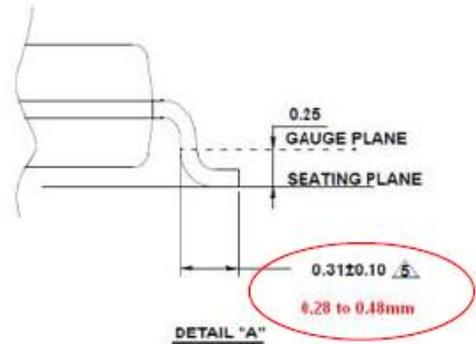
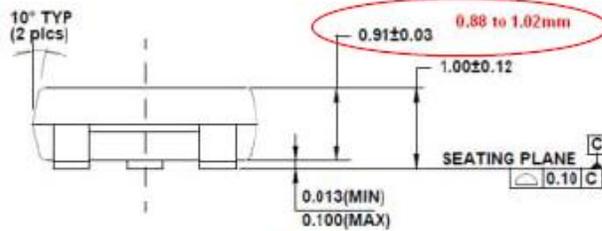
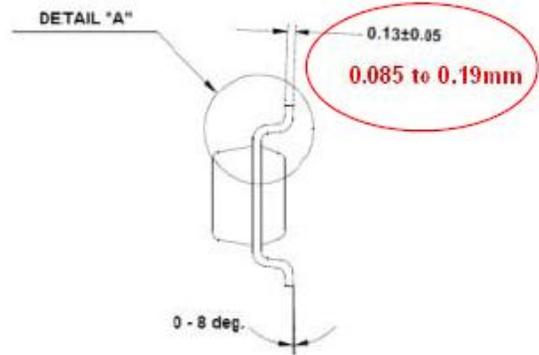
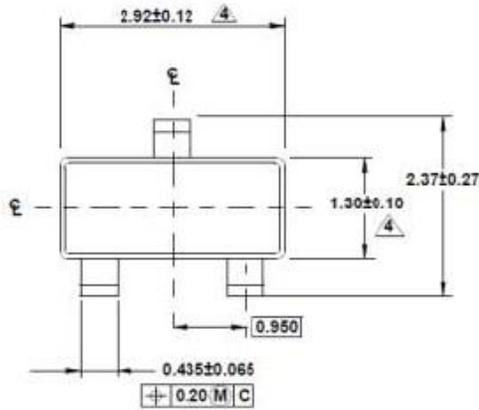
	Stress / Conditions	Duration	Results - ISL88002IH23Z-T ( 3L SOT23 )		
			3 - Test Lots	1 - Control Lot	Remarks
1	Storage Life Ta=+150C	1000 Hours	0/78	0/78	PASS
2	Bond Pull Integrity +175C	96 Hours	0/15	0/5	PASS
3	MRT +260C (Pb free) Reflow	L3 PBFREE	0/66	0/22	PASS
4	Unbiased HAST +130C/85%RH	96 Hours	0/78	0/78	PASS
5	Temp Cycle -65 to +150c	1000 Cycles	0/78	0/78	PASS
6	Bond Pull Test after Temp cycle	1000 Cycles	0/15	0/5	PASS

# PCN11006 - Package Outline Drawing Updates

## P3.064

3 LEAD SMALL OUTLINE TRANSISTOR PLASTIC PACKAGE (SOT23-3)

Rev 2, 9/09



### NOTES:

1. Dimensions are in millimeters. Dimensions in ( ) for Reference Only.
2. Dimensioning and tolerancing conform to AMSEY14.5m-1994.
3. Reference JEDEC TO-236.
4. Dimension does not include interlead flash or protrusions. Interlead flash or protrusions shall not exceed 0.25mm per side.
5. Footlength is measured at reference to gauge plane.

## PCN11006 – Products Affected

ISL88001IH16Z-T	ISL88002IH16Z-T7A	ISL88003IH16Z-TK
ISL88001IH16Z-T7A	ISL88002IH16Z-TK	ISL88003IH17Z-T
ISL88001IH16Z-TK	ISL88002IH17Z-T	ISL88003IH17Z-T7A
ISL88001IH17Z-T	ISL88002IH17Z-T7A	ISL88003IH17Z-TK
ISL88001IH17Z-T7A	ISL88002IH17Z-TK	ISL88003IH22Z-T
ISL88001IH17Z-TK	ISL88002IH22Z-T	ISL88003IH22Z-T7A
ISL88001IH22Z-T	ISL88002IH22Z-T7A	ISL88003IH22Z-TK
ISL88001IH22Z-T7A	ISL88002IH22Z-TK	ISL88003IH23Z-T
ISL88001IH22Z-TK	ISL88002IH23Z-T	ISL88003IH23Z-T7A
ISL88001IH23Z-T	ISL88002IH23Z-T7A	ISL88003IH23Z-TK
ISL88001IH23Z-T7A	ISL88002IH23Z-TK	ISL88003IH26Z-T
ISL88001IH23Z-TK	ISL88002IH26Z-T	ISL88003IH26Z-T7A
ISL88001IH26Z-T	ISL88002IH26Z-T7A	ISL88003IH26Z-TK
ISL88001IH26Z-T7A	ISL88002IH26Z-TK	ISL88003IH29Z-T
ISL88001IH26Z-TK	ISL88002IH29Z-T	ISL88003IH29Z-T7A
ISL88001IH29Z-T	ISL88002IH29Z-T7A	ISL88003IH29Z-TK
ISL88001IH29Z-T7A	ISL88002IH29Z-TK	ISL88003IH31Z-T
ISL88001IH29Z-TK	ISL88002IH31Z-T	ISL88003IH31Z-T7A
ISL88001IH31Z-T	ISL88002IH31Z-T7A	ISL88003IH31Z-TK
ISL88001IH31Z-T7A	ISL88002IH31Z-TK	ISL88003IH44Z-T
ISL88001IH31Z-TK	ISL88002IH44Z-T	ISL88003IH44Z-T7A
ISL88001IH44Z-T	ISL88002IH44Z-T7A	ISL88003IH44Z-TK
ISL88001IH44Z-T7A	ISL88002IH44Z-TK	ISL88003IH46Z-T
ISL88001IH44Z-TK	ISL88002IH46Z-T	ISL88003IH46Z-T7A
ISL88001IH46Z-T	ISL88002IH46Z-T7A	ISL88003IH46Z-TK
ISL88001IH46Z-T7A	ISL88002IH46Z-TK	
ISL88001IH46Z-TK	ISL88003IH16Z-T	
ISL88002IH16Z-T	ISL88003IH16Z-T7A	