PRODUCT CHANGE NOTICE

Alternate Bond Wire Material for Assembly of the Listed Intersil QSOP Packaged Products

Refer to:
PCN13037

Date: June 11, 2013

intersil | SIMPLY SMARTER™

June 11, 2013

To: Our Valued Intersil Customer

Subject: **Alternate Bond Wire Material for Assembly of the Listed Intersil QSOP Packaged Products –** *Carsem (CAM) Ipoh, Malaysia*

This notice is to inform you that Intersil is qualifying copper bond wire as an alternate to the gold bond wire currently used for assembly of the listed QSOP (Quarter Size Outline Plastic) packaged products at the Carsem (CAM) facility located in Ipoh, Malaysia. The advantages of copper bond wire include improved electrical conductivity of the wire, slower intermetallic growth, reduced wire sweep and equivalent reliability performance. This action will expand current capabilities and capacities to optimize Intersil's ability to meet customer's delivery requirements. The product and site-specific qualification activities are in progress and expected to complete during Q3 CY2013.

The Carsem (CAM) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified and qualified as a supplier to Intersil for assembly of QSOP packaged products with both copper and gold bond wire material. Products assembled with copper bond wire are classified as moisture sensitivity level three (MSL 3 at 260°C per J-STD-020). As such, the listed products will be packed, labeled, and shipped as moisture sensitivity level three (MSL 3) upon implementation of the changes outlined in this PCN.

The qualification plan for copper bond wire assembly is 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 copper bond wire assembly qualification plan is included 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.

Products affected by this change that are assembled using either gold or copper bond wire material are identifiable via Intersil's internal traceability system and by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at CAM with copper bond wire is "X". The site code for product assembled at CAM with gold bond wire is "G".

Intersil will take all necessary actions to conform to agreed upon customer requirements and to ensure the continued high quality and reliability of products being supplied. Customers may expect to receive product assembled using either gold or copper bond wire 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,

Jeff Touvell

Jeff Touvell
Intersil Corporation

PCN13037

CC: J. Touvell D. Decrosta D. Foster D. Singh S. Nadarajah C. Toh

PCN13037 –Products Affected

ISL6227CAZ	ISL6251AHAZ-TR5283	ISL6268CAZ	ISL6442IAZ-TKS2715	ISL6726AAZ-T
ISL6227CAZA-TS2490	ISL6252AHAZ	ISL6268CAZ-T	ISL6445IAZ	ISL6726AAZ-T7A
ISL6227CAZR5191	ISL6252AHAZ-T	ISL6420AIAZ	ISL6445IAZ-TK	ISL6755AAZA
ISL6227CAZR5192	ISL6252HAZ	ISL6420AIAZ-TK	ISL6539CAZ	ISL6755AAZA-T
ISL6227CAZS2698	ISL6252HAZ-T	ISL6420BIAZ	ISL6539CAZ-T	ISL6882IAZ
ISL6227CAZ-T	ISL6253HAZ	ISL6420BIAZ-T7A	ISL6539IAZ	ISL6882IAZ-T
ISL6227CAZ-TR5189	ISL6253HAZ-T	ISL6420BIAZ-TK	ISL6539IAZ-T	ISL8128IAZ
ISL6227CAZ-TR5191	ISL6255AHAZ	ISL6420IAZ	ISL6539IAZ-TS2568	ISL8128IAZ-TK
ISL6227CAZ-TR5192	ISL6255AHAZ-T	ISL6420IAZ-TK	ISL6549CAZA	ISL8130IAZ
ISL6227CAZ-TS2568	ISL6255HAZ	ISL6440IAZ	ISL6549CAZAS2698	ISL8130IAZ-TK
ISL6227CAZ-TS2698	ISL6255HAZR5283	ISL6440IAZ-T	ISL6549CAZA-T	
ISL6227CAZ-TS2709	ISL6255HAZ-T	ISL6440IAZ-T7	ISL6549CAZA-TS2698	
ISL6227IAZ	ISL6255HAZ-TR5283	ISL6440IAZ-TK	ISL6549CAZR5213	
ISL6227IAZ-T	ISL6256AHAZ	ISL6440IAZ-TS2568	ISL6549CAZ-TR5213	
ISL6232CAZA	ISL6256AHAZ-T	ISL6442IAZ	ISL6549IAZ	
ISL6232CAZA-T	ISL6256HAZ	ISL6442IAZ-TK	ISL6549IAZ-T	
ISL6251AHAZR5283	ISL6256HAZ-T	ISL6442IAZ-TKS2568	ISL6726AAZ	

PCN13037 – CAS Reliability Qualification Plan

Device: ISL6227CAZ (28L QSOP)					
Stress / Conditions	**Duration**	**Test lots**			**Result**
		Lot #1	**Lot #2**	**Lot #3**	
MSL Classification	L3 PBFree	N = 22			
		Acc = 0			
bHAST 130C / 85% RH	96 Hrs	N = 26	N = 26	N = 26	
		Acc = 0	Acc = 0	Acc = 0	
uHAST 130C / 85% RH	96 Hrs	N = 26	N = 26	N = 26	
		Acc = 0	Acc = 0	Acc = 0	
Temp Cycle -65C to +150C	500 cyc	N = 80	N = 80	N = 80	
		Acc = 0	Acc = 0	Acc = 0	
Storage Life 150C	1000 Hrs	N = 26	N = 26	N = 26	
		Acc = 0	Acc = 0	Acc = 0	