
PRODUCT CHANGE NOTICE

**Alternate Manufacturing
Facilities for Assembly of the
Listed Intersil
DFN/TDFN/QFN/TQFN
Packaged Products**

**Refer to:
PCN14009**

Date: March 13, 2014

March 13, 2014

To: Our Valued Intersil Customer

Subject: **Alternate Manufacturing Facilities for Assembly of the Listed Intersil TDFN/QFN/TQFN Packaged Products** – *Advanced Semiconductor Engineering (ASECL) - Chung-Li , Taiwan and Carsem (CAS) - Ipoh, Malaysia*

This notice is to inform you that Intersil will begin using the Advanced Semiconductor Engineering (ASECL) or Carsem (CAS) facility as alternate sites for assembly of the listed TDFN/QFN/TQFN (Dual/Quad Flat No-Lead/Thin Dual/Quad Flat No-Lead) packaged products. The current facility STATS ChipPAC (SCM) located in Kuala Lumpur, Malaysia has officially announced plant closure by end of year 2014. The hyperlink to the announcement is <http://www.statschippac.com/news/newscenter/2013/news06282013.aspx>. As of the date of this notice, the product and site-specific qualification activities at the Advanced Semiconductor Engineering (ASECL) and Carsem (CAS) facilities are complete.

The Advanced Semiconductor Engineering (ASECL) and Carsem (CAS) facilities are ISO 9001:2008 and ISO/TS 16949:2009 certified. ASECL and CAS are qualified as primary suppliers to Intersil for high volume assembly of DFN/QFN/TQFN packaged products. There is no change in the MSL (moisture sensitivity level) or POD (package outline drawing).

The assembly qualification plan is designed using JEDEC and other applicable industry standards to confirm there is no impact to form, fit, function, or interchangeability of the product. The remainder of the manufacturing operations (wafer fabrication, package level electrical testing, 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. In addition, product assembled at ASECL or CAS may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at ASECL is "U". The site code for product assembled at CAS is "F".

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 at the SCM facility and either the ASECL or CAS facilities 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
Intersil Corporation

PCN14009

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PCN14009 – CAS Reliability Qualification Results

Stress / Conditions	Duration	ISL3036EIRZ-T 12 lead 3.5X3.5 QFN	ISL31486EIRTZ 12 lead 4X3 TDFN	ISL95870BHRZ-T 20 lead 3X4 QFN	ISL6336CRZ-T 48 lead 7X7 QFN
Moisture Sensitivity Classification		N/A	N/A	N = 22 Acc = 0 L2 PBFREE	N = 22 Acc = 0 L1 PBFREE
Temperature Humidity Bias +85C / 85% RH	1000 Hrs	N/A	N = 160 Acc = 0	N/A	N/A
Autoclave/PCT +121C / 100% RH	96 Hrs	N/A	N/A	N = 45 Acc = 0	N = 45 Acc = 0
Temp Cycle +150C / -65C	500 Cy	N = 72 Acc = 0	N/A	N = 45 Acc = 0	N = 45 Acc = 0
High Temperature Storage T _A = +150C	1000 Hrs	N = 80 Acc = 0	N/A	N = 45 Acc = 0	N = 45 Acc = 0

Stress / Conditions	Duration	ISL8009BIRZ-T 8 lead 2X3 DFN	ISL80101AIRAJZT 10 lead 3X3 DFN	ISL9214IRZ-T 10 lead 3X3 DFN	ISL9519HRTZ-T 28 lead 4X4 TQFN
Moisture Sensitivity Classification		N = 22 Acc = 0 L1 PBFREE	N = 22 Acc = 0 L1 PBFREE	N = 22 Acc = 0 L1 PBFREE	N = 22 Acc = 0 L1 PBFREE
Autoclave/PCT +121C / 100% RH	96 Hrs	N = 45 Acc = 0	N = 45 Acc = 0	N = 45 Acc = 0	N = 45 Acc = 0
Temp Cycle +150C / -65C	500 Cy	N = 45 Acc = 0	N = 45 Acc = 0	N = 45 Acc = 0	N = 45 Acc = 0
High Temperature Storage T _A = +150C	1000 Hrs	N = 45 Acc = 0	N = 45 Acc = 0	N = 45 Acc = 0	N = 45 Acc = 0

Qualification by Extension, Completed & Passed

PCN14009 – ASE Reliability Qualification Results

Stress / Conditions	Duration	ISL6332ADRZ 32 lead 5X5 QFN	ISL88731CHRZ 28 lead 5X5 TQFN	ISL9214IRZ 10 lead 3X3 DFN
Moisture Sensitivity Classification		N = 22 Acc = 0 L1 PBFREE	N/A	N = 22 Acc = 0 L1 PBFREE
Temperature Humidity Bias +85C / 85% RH	1000 Hrs	N = 80 Acc = 0	N/A	N/A
Biased HAST +130C / 85% RH	96 Hrs	N/A	N = 79 Acc = 0	N/A
Temp Cycle +150C / -65C	1000 Cy	N = 371 Acc = 0	N = 75* Acc = 0	N = 78* Acc = 0
Unbiased HAST +130C / 85% RH	96 Hrs	N = 252 Acc = 0	N = 81 Acc = 0	N = 78 Acc = 0
High Temperature Storage T _A = +150C	1000 Hrs	N = 252 Acc = 0	N = 78 Acc = 0	N = 78 Acc = 0

Qualification by Extension, Completed & Passed

*- Temperature cycle performed from -40 to 125C

PCN14009 – Affected Products (CAS)

ISL24826IRZ	ISL6540AIRZ- TR5453	ISL8130IRZ- T7AR5194	ISL85403IRZ-TS2753
ISL24826IRZ-T13	ISL8120IRZ	ISL8130IRZ- TKR5194	ISL9110BIRTAZ-TR5453
ISL24835IRZ	ISL8120IRZEC	ISL84781IRZ	ISL9110IRTAZ-TR5453
ISL24835IRZ-T13	ISL8120IRZR5568	ISL84781IRZ-T	ISL9110IRTNZ
ISL45041IRZ	ISL8120IRZ-T	ISL84781IRZ-TS2705	ISL9110IRTNZ-T
ISL45041IRZ-T	ISL8120IRZ-TEC	ISL85402IRZ	ISL9110IRTNZ-T7A
ISL6131IRZA- TS2490	ISL8120IRZ-TK	ISL85402IRZ-T	ISL9444IRZ-TS2568
ISL6132IRZA- TR5585	ISL8120IRZ- TR5568	ISL85402IRZ-T7A	
ISL6412IRZ	ISL8126MRZEC	ISL85402IRZ-TK	
ISL6412IRZ-TK	ISL8126MRZ- T7AEC	ISL85402IRZ-TS2753	

PCN14009 – Affected Products (ASE)

ISL8121IRZ-TR5453	ISL97680IRZ	ISL97680IRZ-T	ISL97680IRZ-TK
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