
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 |
|-------------------|-------------|---------------|----------------|