ON Semiconductor

FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16402

Generic Copy

Issue Date: 03-Feb-2010

TITLE: Add ASE-CL as Alternate Assembly Site for Selected Automotive Mixed Signal SOIC Devices

PROPOSED FIRST SHIP DATE: 03 May 2010

AFFECTED CHANGE CATEGORY(S): Assembly Manufacturing

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or Don Warring< don.warring@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office or Sylvie Boonen<Sylvie.Boonen@onsemi.com >

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

Addition of ASE-Chung Li (ASE-CL) as an alternate source assembly site for selected Automotive Mixed Signal devices in SOIC package. ASE-CL is already a qualified source of SOIC packages for other ON Semiconductor devices and is TS-16949 certified.

ASE-CL will be using its standard halogen free Bill of Materials and process flow. Package electrical, thermal, and reliability performance will be equivalent in ASE-C: to the current subcontract assembly site, Amkor Phillipines. There is no impact to part form, fit, or function. ASE-CL has successfully completed reliability testing per AEC-Q100 standards at Moisture Sensitivity Level of 2 (MSL2).

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RELIABILITY DATA SUMMARY:

Reliability Test Results:

Test	Conditions	Results
Preconditioning	MSL2	0/552 Rejects
Temperature Cycling	-65 to +150C, 500 cycles	0/276 Rejects
Unbiased HAST	130C, 85%RH, 96 hours	0/231 Rejects
Biased HAST	130C, 85%RH, 96 hours	0/231 Rejects
High Temperature Storage	150C, 1000 hours	0/231 Rejects
High Temperature Operation	125C, 1000 hours	0/45 Rejects

Solderability	0/45 Rejects
Physical Dimensions	0/30 Rejects
Marking Permanency	0/12 Rejects
Wire Pull	0/5 Rejects
Bond Shear	0/5 Rejects

ELECTRICAL CHARACTERISTIC SUMMARY:

There were no changes in device electrical performance or specifications. Summary data is available. Please contact your local ON Semiconductor Sales Office.

CHANGED PART IDENTIFICATION:

Products assembled at ASE-CL can be identified by the first character “T” of the tracecode marking.

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List of affected General Parts:

PART
AMIS42665TJAA1G
AMIS42665TJAA1RG
NCV7321D10G
NCV7321D10R2G