ON Semiconductor

FINAL PRODUCT/PROCESS CHANGE NOTIFICATION 20105

Generic Copy

Issue Date: 12-Jun-2013

TITLE: Addition of Amkor P3, Philippines and UTAC, Thailand as qualified assembly site for Common Mode Filter devices in DFN package

PROPOSED FIRST SHIP DATE: 12-Sep-2013 or earlier with customer approval

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Assembly Site

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or KL LAI <ffyj9h@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office or Francis Lualhati <ffxczy@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:

This is the final notification announcing that ON Semiconductor has its Common Mode Filter devices in DFN package (please refer to the list of affected general parts section for complete device list), assembled and qualified at Amkor, P3 factory located in the Philippines and UTAC, located in Thailand. Both assembly sites are ISO/TS16949:2009 certified. They have already been qualified and utilized by ON Semiconductor.

1 device has been identified as qualification vehicle, based on the package dimension, die size and volumes. Reliability testing and full electrical characterization over temperatures were performed to ensure device functionality and electrical specifications are met.

Upon expiration or approval of the FPCN, devices listed in this final PCN will have Amkor and UTAC as additional assembly sites. Customer may receive devices assembled in our in-house Seremban, Malaysia assembly facilities; UTAC, Thailand and Amkor P3 Philippines after that. The location of the assembly sites can be identified by the marking of the date code.

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RELIABILITY DATA SUMMARY:

Package: **UDFN16**
Qual Vehicles: **EMI4183MUTAG**

Qualification Results and Analysis:

Test:	Conditions:	Interval:	Results
HTRB	TA=85°C, 80% rated voltage	1008 hrs	0/240
HTSL	TA = 150°C	1008 hrs	0/240
TC-PC	Ta= -65 C to 150 C	1000 cyc	0/240
HAST-PC	Ta=130C RH=85%,	96 hrs	0/240
Autoclave-PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240

Conclusion: All reliability requirements have been met.

ELECTRICAL CHARACTERISTIC SUMMARY:

No changes in electrical specifications; all product performance meets current datasheet specifications.

CHANGED PART IDENTIFICATION:

1. **Marking of the month date codes:**

   Seremban Malaysia assembled devices: M

   UTAC Thailand assembled devices: 

   Amkor P3 assembled devices: 

List of affected General Parts:

EMI4183MUTAG
EMI4182MUTAG
EMI4183MTTAG
EMI4182MTTAG
EMI2121MTTAG
EMI2124MTTAG