



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20579

Generic Copy

Issue Date: 27-Aug-2014

TITLE: Final Notification of Second Source FAB Qualification of ASMC, Shanghai for Zener Products.

PROPOSED FIRST SHIP DATE: 02-Dec-2014

AFFECTED CHANGE CATEGORY(S): Fab Site

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or <Eben.Lim@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or <Laura.Rivers@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:

ON Semiconductor is notifying customers of ASMC (Advanced Semiconductor Manufacturing Corporation Limited in Shanghai, China) qualification as second source fab to the current internal ISMF Fab in Seremban, Malaysia for Zener products.

Prior to this qualification, ASMC has been supplying wafers for other zener products for ON Semiconductor. ASMC is an external foundry that is ISO/TS16949, ISO-9001 and ISO-27001 certified.

Qualification tests are designed to show that the reliability of transferred devices will continue to meet or exceed ON Semiconductor standards.



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RELIABILITY DATA SUMMARY:

Test	Conditions	Interval:	Results
<u>ESD5B5.0ST5G</u>			
Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
HAST+PC	Ta=130C RH=85% bias=80% rated V or 100V Max	96 hrs	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
IOL	Ta=25C, delta Tj = 100C, Ton = Toff = 2min	15000 cyc	0/240
RSH	Ta=260, 10 sec, final elec		0/90
DPA	post TC 1000 cyc		0/6
DPA	post HAST 96 hrs		0/6

<u>ESD5481MUT5G</u>			
Test:	Conditions:	Interval:	Results
HTRB	TA=150C,80% Rated Voltage	1008 hrs	0/240
HAST+PC	Ta=130C RH=85% bias=80% rated V or 100V Max	96 hrs	0/180
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
IOL	Ta=25C, delta Tj = 100C, Ton = Toff = 2min	15000 cyc	0/90
RSH	Ta=260, 10 sec, final elec		0/30
DPA	post TC 1000 cyc		0/6
DPA	post HAST 96 hrs		0/6

ELECTRICAL CHARACTERISTIC SUMMARY:

Available upon request

CHANGED PART IDENTIFICATION:

Unless with customer approval (OA), the affected devices from ON Semiconductor with date code Dec 2014 and greater may be sourced from either ASMC, Shanghai or the ON Semiconductor ISMF Fab, Seremban.

List of affected General Parts:

ESD5B5.0ST1G
 ESD5481MUT5G
 ESD5482MUT5G
 ESD9B3.3ST5G
 ESD9B5.0ST5G
 NUP4004M5T1G