



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
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13 Nov 2009

SUBJECT: ON Semiconductor Final Product/Process Change Notification #16365

TITLE: Final Notification for Phase 1 Transfer of Ultrafast Rectifiers from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF Fab in Seremban (Malaysia)

PROPOSED FIRST SHIP DATE: 13 Feb 2010

AFFECTED CHANGE CATEGORY: ON Semiconductor Fab Site

AFFECTED PRODUCT DIVISION: Discrete Products

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Raja Roziah Raja Rahmat
<Raja.Roziah.Rahmat@onsemi.com>

SAMPLES:

Contact your local ON Semiconductor Sales Office

FOR ANY QUESTIONS CONCERNING RELIABILITY DATA:

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

DESCRIPTION AND PURPOSE:

This is a FPCN from IPCN 16250. ON Semiconductor is notifying customers that the first phase of Ultrafast Rectifier products will transfer from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF Fab in Seremban (Malaysia).

The ISMF facility is an ON Semiconductor owned wafer fab that has been producing products for ON Semiconductor since 1998. Several existing technologies within ON Semiconductor's product families are currently sourced from ISMF, including Zener, Diodes, Small Signal Transistor, and USB array filter products. ON Semiconductor Seremban Wafer FAB is an internal factory that is TS16949, ISO-9001 and ISO-14000 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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QUALIFICATION PLAN:

Reliability testing was performed on a qualification vehicle chosen based on die size, voltage rating, and run rates.

RELIABILITY RESULTS:

Package: SMC
Qual Vehicle: MURS360T3G

MURS360T3G

Test:	Conditions:	Interval:	Results
HTRB	Ta=150C, 80% rated V	504 hrs	0/240
Precondition	MSL1 @ 260C , 3 X IR at 260 C		0/960
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta= 85C RH=85%	504 hrs	0/240
	bias=80% rated V or 100V Max		
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	7500 cyc	0/240
TC+PC	Ta= -65 C to 150 C air to air	1000 cyc	0/240
RSH	Ta=260C, 10 sec dwell		0/30

ELECTRICAL CHARACTERIZATION RESULTS:

Available upon request

CHANGED PART IDENTIFICATION:

Affected products from ON Semiconductor with date code 006 and greater may be sourced from either the ISMF Fab in Seremban (Malaysia) or the ZR Fab in Phoenix (USA).



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AFFECTED DEVICE LIST:

MUR105G
MUR105RLG
MUR110G
MUR110RLG
MUR115G
MUR115RLG
MUR120G
MUR120RLG
MUR130G
MUR130RLG
MUR140G
MUR140RLG
MUR160G
MUR160RLG
MUR210G
MUR210RLG
MUR220G
MUR220RLG
MUR240G
MUR240RLG
MUR260G
MUR260RLG
MUR405G
MUR410G
MUR410RLG
MUR415G
MUR415RLG
MUR420G
MUR420RLG
MUR420S
MUR420SG
MUR440G
MUR440RLG
MUR460G
MUR460RLG
MUR550APFRLG
MURA105T3G
MURA110T3
MURA110T3G
MURA115T3G
MURA120T3
MURA120T3G
MURA120T3H
MURA130T3G
MURA140T3
MURA140T3G
MURA160T3
MURA160T3G
MURA160T3H
MURA205T3G
MURA210T3G
MURA215T3
MURA215T3G



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MURA220T3
MURA220T3G
MURA230T3G
MURA240T3G
MURA260T3G
MURHS160T3G
MURS105T3G
MURS110T3
MURS110T3G
MURS115T3
MURS115T3G
MURS120T3
MURS120T3G
MURS120T3H
MURS140T3
MURS140T3G
MURS140T3H
MURS160T3
MURS160T3G
MURS160T3H
MURS205T3G
MURS210T3G
MURS220T3
MURS220T3G
MURS230T3
MURS230T3G
MURS240T3G
MURS260T3G
MURS320T3
MURS320T3G
MURS320T3H
MURS340T3
MURS340T3G
MURS360BT3G
MURS360T3
MURS360T3G
MURS360T3H
NRVUS240T3G
SUR120RL
SUR120RLG
SUR259RL
SUR259RLG
SUR327RL
SUR327RLG
SUR338LF
SUR338LFG
SUR460LFG
SUR555LFG
SUR5665T3
SUR5665T3G
SUR722LFG
SUR8120RLG
SUR8420RL
SUR8420RLG
SURS221T3
SURS221T3G



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SURS239T3
SURS239T3G
SURS283T3
SURS283T3-001
SURS283T3-003
SURS283T3-1G
SURS283T3-3G
SURS283T3-4G
SURS283T3G
SURS5643T3
SURS5643T3G
SURS5644T3
SURS5644T3G
SURS5648T3
SURS5648T3G
SURS5650T3
SURS5650T3G
SURS5651T3
SURS5651T3G
SURS5662T3
SURS5662T3G
SURS5664T3
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SURS5666T3
SURS5666T3G
SURS5670T3
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SURS8105T3G
SURS8110T3G
SURS8115T3G
SURS8120T3
SURS8120T3G
SURS8140T3
SURS8140T3G
SURS8160T3
SURS8160T3G
SURS8205T3G
SURS8210T3G
SURS8220T3G
SURS8260T3G
SURS8320T3
SURS8320T3G
SURS8360T3
SURS8360T3G