FINAL PRODUCT/PROCESS CHANGE NOTIFICATION

08 Feb 2008

SUBJECT: ON Semiconductor Final Product/Process Change Notification #16098

TITLE: Final Notification of ISMF Wafer Fab Qualification for Schottky Rectifier Products (Phase 2)

PROPOSED FIRST SHIP DATE: 08 May 2008

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Fab Site

AFFECTED PRODUCT DIVISION(S): Automotive & Power Regulation Group

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

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available
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 the second FPCN to IPCN 16006 that announced the ON Semiconductor is adding wafer fabrication capacity for the Schottky Rectifier products listed herein at the ISMF wafer 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 transistors and diodes, and USB array filter products.

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RELIABILITY DATA SUMMARY:

MBRS260T3

MSL1 @ 260C		0/960
MSL performed before TC, H3TRB, AC and IOL		
HTRB Ta=90C, Vr=48V	1008 hours	0/240
HTSL Ta=150C	1008 hours	0/240
Temp Cycle		
Ta= -65/150C	1000 cycles	0/240
Autoclave		
Ta = 121C, RH=100% psig ~14.7	96 hours	0/240
H3TRB Ta=85C, RH=85% Vr=48V	1008 hours	0/240
IOL Ta=25C, Tjmax=100		
Ton=Toff=2minutes	15000 cycles	0/240

MBRB20200CT

HTRB Ta=90C, Vr=160V	1008 hours	0/240
HTSL Ta=150C	1008 hours	0/240
Temp Cycle		
Ta= -65/150C	1000 cycles	0/240
Autoclave		
Ta = 121C, RH=100% psig ~14.7	96 hours	0/240
H3TRB Ta=85C, RH=85% Vr=100V	1008 hours	0/240
IOL Ta=25C, Tjmax=100		
Ton=Toff=3.5minutes	8572 cycles	0/240

ELECTRICAL CHARACTERISTIC SUMMARY:

There are no changes in electrical characteristics; product performance meets data sheet specifications**.** Characterization data is available upon request**.**

CHANGED PART IDENTIFICATION:

Devices using die sourced from ISMF fab may be produced starting with date code 08 20

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AFFECTED DEVICE LIST:

1N5818G
1N5818RLG
1N5819G
80SQ045NG
MBR0530T1
MBR0530T1G
MBR0530T3G
MBR130T1
MBR130T1G
MBR130T3G
MBR140SFT1G
MBR140SFT3G
MBR20200CT
MBR20200CTG
MBR20L45CTG
MBR2535CTL
MBR30H30CTG
MBR30L45CTG
MBR40250G
MBR40250TG
MBR40L45CTG
MBR60L45CTG
MBR60L45WTG
MBRA140T3
MBRA140T3G
MBRA340T3G
MBRB20200CT
MBRB20200CTG
MBRB20200CTT4
MBRB20200CTT4G
MBRB2535CTLG
MBRB2535CTLT4
MBRB2535CTLT4G
MBRB3030CTLG
MBRB30H30CT-1G
MBRC20200CTWP
MBRC2535CTLWP
MBRC835LWP
MBRD1035CTLG
MBRD835LG
MBRD835LT4
MBRD835LT4G
MBRF20200CT
MBRF20200CTG
MBRF20L45CTG
MBRF30L45CTG
MBRF40250TG
MBRM140T1
MBRM140T1G
MBRM140T3
MBRM140T3G
MBRS120T3

MBRS120T3G
MBRS130T3G
MBRS140T3
MBRS140T3G
MBRS1540T3G
MBRS2040LT3
MBRS2040LT3G
MBRS240LT3
MBRS240LT3G
MBRS3200T3
MBRS3200T3G
MBRS3201T3G
MBRS320T3
MBRS320T3G
MBRS330T3G
MBRS340T3
MBRS340T3G
MBRS4201T3G
MBRS540T3
MBRS540T3G
SBRA140T3G
SBRS5633-3T3
SS22T3G
SS24T3
SS24T3G