



---

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION**  
Generic Copy

---

**18 Dec 2007**

**SUBJECT: ON Semiconductor Final Product/Process Change Notification #16077**

**TITLE: Final Notification of ISMF Wafer Fab Qualification for Schottky Rectifier Products**

**PROPOSED FIRST SHIP DATE: 18 Mar 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](mailto: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](mailto: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 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.



**Final Product/Process Change Notification #16077**

**RELIABILITY DATA SUMMARY:**

**MBRM120ET3G**

MSL1 @ 260C		0/924
MSL performed before TC, H3TRB, AC and IOL		
HTRB Ta=90C, Vr=16V	1008 hours	0/231
HTSL Ta=150C	1008 hours	0/231
Temp Cycle		
Ta= -65/150C	1000 cycles	0/231
Autoclave		
Ta = 121C, RH=100% psig ~14.7	96 hours	0/231
H3TRB Ta=85C, RH=85% Vr=16V	504 hours	0/231
IOL Ta=25C, Tjmax=100		
Ton=Toff=2 minutes	15000 cycles	0/231

**MBRB20100CTT4G**

HTRB Ta=90C, Vr=80V	504 hours	0/231
HTSL Ta=150C	504 hours	0/231
Temp Cycle		
Ta= -65/150C	1000 cycles	0/231
Autoclave		
Ta = 121C, RH=100% psig ~14.7	96 hours	0/231
H3TRB Ta=85C, RH=85% Vr=80V	504 hours	0/231
IOL Ta=25C, Tjmax=100		
Ton=Toff=3.5 minutes	4286 cycles	0/231

**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 0812.

**AFFECTED DEVICE LIST:**

MBR0540T1  
 MBR0540T1G  
 MBR0540T1H  
 MBR0540T3  
 MBR0540T3G  
 MBR1035G  
 MBR1045

**Final Product/Process Change Notification #16077**

MBR1045G  
MBR10H100CT  
MBR10H100CTG  
MBR120ESFT1G  
MBR120ESFT3G  
MBR1535CT  
MBR1535CTG  
MBR1545CT  
MBR1545CTG  
MBR16100CT  
MBR16100CTG  
MBR1635  
MBR1635G  
MBR1645  
MBR1645G  
MBR20100CT  
MBR20100CTG  
MBR2030CTL  
MBR2030CTLG  
MBR2045CT  
MBR2045CTG  
MBR2080CT  
MBR2080CTG  
MBR2090CTG  
MBR2090CTLFAJG  
MBR20H100CT  
MBR20H100CTG  
MBR2535CT  
MBR2535CTG  
MBR2545CT  
MBR2545CTG  
MBR3045PT  
MBR3045PTG  
MBR3045ST  
MBR3045STG  
MBR3045WTG  
MBR30H100CT  
MBR30H100CTG  
MBR30H60CTG  
MBR340G  
MBR340RLG  
MBR4045PT  
MBR4045PTG  
MBR4045WT  
MBR4045WTG  
MBR40H100WTG  
MBR41H100CT  
MBR41H100CTG  
MBR6045PT  
MBR6045PTG  
MBR6045WT  
MBR6045WTG  
MBR60H100CT  
MBR60H100CTG  
MBR7030WT

**Final Product/Process Change Notification #16077**

MBR7030WTG  
MBR735  
MBR735G  
MBR745  
MBR745G  
MBRA120ET3G  
MBRA210ET3G  
MBRB1045  
MBRB1045G  
MBRB1045T4  
MBRB1045T4G  
MBRB1545CT  
MBRB1545CTG  
MBRB1545CTT4  
MBRB1545CTT4G  
MBRB1645T4G  
MBRB20100CT  
MBRB20100CTG  
MBRB20100CTT4  
MBRB20100CTT4G  
MBRB20H100CTT4G  
MBRB2545CT  
MBRB2545CTG  
MBRB2545CTT4  
MBRB2545CTT4G  
MBRB3030CT  
MBRB3030CTG  
MBRB3030CTT4  
MBRB3030CTT4G  
MBRB3045CT-1G  
MBRB30H60CT-1G  
MBRB4030  
MBRB4030G  
MBRB4030T4  
MBRB4030T4G  
MBRB41H100CT-1G  
MBRB41H100CTT4G  
MBRB60H100CTT4G  
MBRB8H100T4G  
MBRC1045WP  
MBRC1060WP  
MBRC1645WP  
MBRD1045T4G  
MBRD5H100T4G  
MBRF20100CT  
MBRF20100CTG  
MBRF2060CT  
MBRF2060CTG  
MBRF20H100CTG  
MBRF2545CT  
MBRF2545CTG  
MBRF30H60CTG  
MBRM110ET1G  
MBRM110ET3G  
MBRM120ET1



**Final Product/Process Change Notification #16077**

MBRM120ET1G  
MBRM120ET3  
MBRM120ET3G  
MBRS2H100T3G  
MBRS410ET3G  
SBR136CT1LF  
SBR5571-2G