



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
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17 Mar 2008

SUBJECT: ON Semiconductor Initial Product/Process Change Notification # 16105

TITLE: ISMF Wafer Fab Qualification for Schottky Rectifier Products

PROPOSED FIRST SHIP DATE: 17 Jul 2008

AFFECTED CHANGE CATEGORY: ON Semiconductor Fab Site

AFFECTED PRODUCT DIVISION: Rectifier Division

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Mark Thomas <Mark.Thomas@onsemi.com>

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN is advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan.

The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN).

This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 60 days prior to implementation of the change.

DESCRIPTION AND PURPOSE:

This is the second IPCN issued after IPCN 16006 that announced 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 1990. Several existing technologies within ON Semiconductor's product families are currently sourced from ISMF, including Zener Diodes, Small Signal, and USB array filter products.

**Initial Product/Process Change Notification # 16105****QUALIFICATION PLAN:**

Two different qualification vehicles have been selected to address all critical variables and interactions of wafer design features, process considerations, mechanical construction, and electrical characteristics.

<u>ON Part Number</u>	<u>Rated Voltage</u>	<u>Package</u>
MBRS130LT3G	30V	SMB
MBR30H150CTG	150V	TO220

RELIABILITY PLAN:

Reliability qualification testing will be performed on the above qualification vehicles:

HTRB (High Temperature Reverse Bias)
80% rated voltage, max Tj
H3TRB (High Temperature, Humidity, Reverse Bias)
85% RH, 85C, 80% rated voltage or 100V max
HTSL (High Temperature Storage Life)
Ta=150C
IOL (Intermittent Operating Life)
1008 hrs
TC (Temperature Cycling)
-65C to +150C
Autoclave
121C, 100% RH, 15 PSIG

ELECTRICAL CHARACTERIZATION PLAN:

Perform electrical characterization on 30 units from 3 lots plus control.

Datasheet specifications and product electrical performance will remain unchanged.

AFFECTED DEVICE LIST:**PART**

1N5817G
1N5817RLG
1N5820RLG
1N5821RLG
1N5822RLG
MBR120VLSFT1G
MBR120VLSFT3G
MBR130LSFT1G
MBR20H150CTG
MBR230LSFT1G
MBR30H150CTG
MBR4015CTLG
MBR4015LWTG
MBRF10H150CTG
MBRF20H150CTG
MBRF30H150CTG
MBRS410LT3
MBRS410LT3G