



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION

Internal FYI Copy

20-Jul-2007

SUBJECT: ON Semiconductor Final Product/Process Change Notification #16026

TITLE: Ultrafast Rectifier Product Improvement

PROPOSED FIRST SHIP DATE: 20-Oct-2007

AFFECTED CHANGE CATEGORY(S): Minor Die Change

AFFECTED PRODUCT DIVISION(S): Ultrafast Rectifier

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Stephen Ng <r26141@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Mark Wasilewski <m.wasilewski@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:

ON Semiconductor is pleased to inform about the re-qualification of Ultrafast Rectifiers. ON Semiconductor made a minor change to reduce the size of the top metal layer to pull metal off of the passivation to minimize/eliminate thermal/mechanical stress on the silicon from device packaging. There were no changes to the metal compositions or any other processes or materials. This change does not affect form/fit/function.

**Final Product/Process Change Notification #16026****RELIABILITY DATA SUMMARY:****Reliability Test Results:****Test Conditions**

HTRB Vr=80% Max BiasV, Ta=150degC, 1000 hrs.
Temp Cycle Air to Air, -65 to +150C, 1000 cycles
Autoclave Ta=121C, RH= 100%, PSig=15, 96 hrs.
H3TRB Vr=85%V, Ta=85C, RH= 85%, 1000 hrs.
IOL Ta=25C, If = 0.8A, 2 minutes on/off, 15000 cycles

Test Desc.	Interval	Control	Test Lot A	Test Lot B	Test Lot C
HTRB	1000 hrs	0/80	0/80	0/80	0/80
Temp Cycle	1000 cyc	0/80	0/80	0/80	0/80
Autoclave	96 hrs	0/80	0/80	0/80	0/80
H3TRB	1000 hrs	0/80	0/80	0/80	0/80
IOL	15000 cyc	0/80	0/80	0/80	0/80

ELECTRICAL CHARACTERISTIC SUMMARY:

Electrical characteristics and specifications remain unchanged.

CHANGED PART IDENTIFICATION:

Changed parts will have a product date code of 0741 or later unless approved by customer to occur with an earlier date code.

AFFECTED DEVICE LIST

MURS160T3G
MURS160T3