



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20065

Generic Copy

Issue Date: 01-May-2013

TITLE: Cu wire Conversion on SOT-223 Package for Thyristors products

PROPOSED FIRST SHIP DATE: 01-Aug-2013

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Assembly Site

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or <blanca.kruse@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

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

DESCRIPTION AND PURPOSE:

ON Semiconductor is notifying customers that the Cu wire conversion on the SOT223 packages of the following THYRISTOR products, is now fully qualified. Upon expiration of the associated Final PCN(s), all devices will be assembled with Cu wire. No die design, process, or electrical parameters changes occurred as a result of this qualification.



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RELIABILITY DATA SUMMARY:

Qual Vehicle: Z0109MNT1G

Reliability Test Results:

Test	Conditions	Results	
HTRB	Ta=125C,80% Rated Voltage	504 hrs	0/240
HTFB	Ta=125C,80% Rated Voltage	1008 hrs	0/240
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
RSH	Ta=260C, 10 sec dwell		0/90
HTSL	Ta=150C	1008 hrs	0/240
DPA	AEC Q101-004	post TC 1000 cyc	0/6
DPA	AEC Q101-004	post H3TRB 1008 hr	0/6

ELECTRICAL CHARACTERISTIC SUMMARY:

Datasheet specifications and product electrical performance will remain unchanged. Additional data is available upon request. Contact Blanca Kruse < blanca.kruse@onsemi.com >

CHANGED PART IDENTIFICATION:

Affected products from ON Semiconductor with date code starting WW31 (2013) and greater will be produced with Soft Solder Cu wire.

List of affected General Parts:

Z0109MNT1G
 Z0107MNT1G
 Z0103MNT1G
 MAC08MT1G
 MAC08BT1G
 MCR08MT1G
 MCR08BT1G
 NYC222STT1G
 NYC226STT1G
 NYC228STT1G