



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 20649

Generic Copy

Issue Date: 16-Sep-2014

TITLE: Copper Wire replacing Gold Wire in SOT23 package.

PROPOSED FIRST SHIP DATE: 28-Dec-2014

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Assembly Areas – Wire Bond

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

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

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or ZZ Cheng <S1016z@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 of its use of Copper Wire (in place of Gold Wire) for their SOT23. Discrete products built with bipolar transistor platforms are represented by this Process Change Notice.

Reliability Qualification and full electrical characterization over temperature has been performed.



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RELIABILITY DATA SUMMARY:

Package: SOT23
 Qual Vehicles:
 MMBT489LT1G

Test:	Conditions:	Interval:	Results
AC+PC	121°C/100% RH/15 PSIG	96 hrs	qual 1 0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
HTRB	Ta=150C,80% Rated Voltage	1008 hrs	0/240
H3TRB+PC	Temp = 85C, RH=85%, bias = 80% of rated V or 100V max	1008 hrs	0/240
IOL+PC	Ta=+25°C, deltaTj=100°C max, 2min on/off	15000 cyc	0/240
HTSL	Ta= 150°C	1008 hrs	0/240

ELECTRICAL CHARACTERISTIC SUMMARY:

Datasheet specifications and product electrical performance remain unchanged.
 Characterization data is available upon request.

CHANGED PART IDENTIFICATION:

Products assembled with the Copper Wire from the ON Semiconductor facility will have a **Finished Goods** Date Code 1452, representing Work Week 52, 2014 or newer.

List of affected General Parts:

- MMBT489LT1G
- MMBT589LT1G
- NSS30100LT1G
- NSS30101LT1G
- NSVMMBT589LT1G