



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

07-Dec-2006

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #15677

TITLE: Improvement of MSL for SOT223 (discrete)

PROPOSED FIRST SHIP DATE: 07 April 2007

AFFECTED CHANGE CATEGORY: ON Semiconductor Assembly

AFFECTED PRODUCT DIVISION: Discrete Products Division

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or dave.culbertson@onsemi.com

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPCEN)

First change notification sent to customers. IPCENs are issued at least 120 days prior to implementation of the change. An IPCEN 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 IPCEN 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 an Initial Product Change Notification to make customers aware that ON Semiconductor is qualifying a new BOM with a different lead frame, die attach epoxy and mold compound that will improve the moisture sensitivity level (MSL) for the SOT223 discrete package.

**Initial Product/Process Change Notification #15677****QUALIFICATION PLAN:**

PC MSL1 @ 260C with SAT pre and post MSL
HTRB 150C, Bias=80% rated Vr, 1008 hrs, 80 x 3 lots + control
HTGB 150C, Bias=100% rated gate V, 1008 hrs, 80 x 3 lots + control
H3TRB 85C/85%RH 1008 hrs, 80 x 3 lots + control
IOL Ta=25C, delta Tj=100C max, Ton=Toff=2 min, 15000 cycles, 80 x 3 lots + control
TC Ta=-65/+150C, 1000 cycles, 80 x 3 lots + control
AC/PC 121C, 15psig, 100% RH, 96 hrs, 80 x 3 lots + control

QUALIFICATION DEVICES:

MAC08MT1G
NIF5003NTIG
NIF9N05CLT1
NTF3055L108T1G
PZT75T1G
SMBF1066T1

AFFECTED DEVICE LIST:**PART**

MMJT9435T1G
NTF3055L108T1G
PZT751T1G
NTF5P03T3G
NTF3055L108T3G
NTF2955T1G
NIF5002NT1G
BSP52T1G
BCP68T1G
NTF3055-100T1G
BSP52T3G
PZT651T1G
MMJT9410T1G
MMFT960T1G
MCR08BT1G
NTF3055L175T1G
MMJT9435T3G
NTF3055-100T3G
MAC08MT1G
NIF62514T1G
NTF6P02T3G
NIF9N05CLT1G
MCR08MT1G
MAC08BT1G
NSB9435T1G
NIF5003NT1G
MMJT350T1G
MMFT2955ET1G
SCR5129SG
MMFT2406T1G
MMFT3055VT1G
NIF5002NT3G
NIF5003NT3G



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NIF62514T3G
NIF9N05CLT3G
NJT4030PT1G
NJT4030PT3G
NSSGRF00A0
NTF3055-160T1G
NTF3055L108T3LFG
NTF3055L175T3G
NYT103NA1
SMBT1587T1G
SSVPZT751T1G