



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

02-Apr-2007

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #16003

TITLE: Final Product Change Notification for improvement of MSL for SOT223 (discrete) for IPCN15677.

PROPOSED FIRST SHIP DATE: 02-Jun-2007

AFFECTED CHANGE CATEGORY: ON Semiconductor Assembly

AFFECTED PRODUCT DIVISION: All

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Dave Culbertson<dave.culbertson@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA:

Contact your local ON Semiconductor Sales Office or Laura Rivers<laura.rivers@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. Final Product/Process Change Notification (FPCN) are issued at least 60 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:

This is a Final Product Change Notification to IPCN 15677 available at www.onsemi.com to make customers aware that ON Semiconductor is qualifying a new BOM that will improve the moisture sensitivity level (MSL) for the SOT223 discrete package. This FPCN is specific to the listed devices. Devices in these package codes will be rated MSL 1 260.



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QUALIFICATION PLAN:

Results (Rej/SS)

Deviec: PZT751T1G

PC MSL1 @ 260C with SAT pre and post MSL	
H3TRB 85C/85%RH 1008 hrs	0/248
TC Ta=-65/+150C, 1000 cycles	0/252
AC/PC 121C, 15psig, 100% RH, 96 hrs	0/252
IOL Ta=25C, delta Tj=100C max, Ton=Toff=3.5 min, 8500 c	0/252
HTRB 150C, Bias=80% rated Vr, 1008 hrs	0/252

Device: SMBF1066T1

PC MSL1 @ 260C with SAT pre and post MSL	
H3TRB 85C/85%RH 1008 hrs	0/252
TC Ta=-65/+150C, 1000 cycles	0/252
AC/PC 121C, 15psig, 100% RH, 96 hrs	0/252
IOL Ta=25C, delta Tj=100C max, Ton=Toff=3.5 min, 8500 c	0/252
HTRB 150C, Bias=80% rated Vr, 1008 hrs	0/252

Device: NIF9N05CLT1

PC MSL1 @ 260C with SAT pre and post MSL	
H3TRB 85C/85%RH 1008 hrs	0/248
TC Ta=-65/+150C, 1000 cycles	0/252
AC/PC 121C, 15psig, 100% RH, 96 hrs	0/252
HTGB 150C, Bias=100% rated gate V, 1008 hrs	0/252

Device: NIF5003NT1G

PC MSL1 @ 260C with SAT pre and post MSL	
H3TRB 85C/85%RH 1008 hrs	0/252
TC Ta=-65/+150C, 1000 cycles	0/252
AC/PC 121C, 15psig, 100% RH, 96 hrs	0/252
HTGB 150C, Bias=100% rated gate V, 1008 hrs	0/252

Device: NTF3055L08T1G

PC MSL1 @ 260C with SAT pre and post MSL	
H3TRB 85C/85%RH 1008 hrs	0/252
TC Ta=-65/+150C, 1000 cycles	0/252
AC/PC 121C, 15psig, 100% RH, 96 hrs	0/252
HTGB 150C, Bias=100% rated gate V, 1008 hrs	0/252

Device: MCR08MT1G

PC MSL1 @ 260C with SAT pre and post MSL	
H3TRB 85C/85%RH 504 hrs	0/252
TC Ta=-65/+150C, 500 cycles	0/252
AC/PC 121C, 15psig, 100% RH, 96 hrs	0/252
IOL Ta=25C, delta Tj=100C max, Ton=Toff=3.5 min, 7500 c	0/252
HTRB 150C, Bias=80% rated Vr, 504 hrs	0/252

ELECTRICAL CHARACTERISTIC SUMMARY:

No changes to electrical performance occurred.

CHANGED PART IDENTIFICATION:

Parts with date code of 721 or greater may be manufactured using the new BOM. Devices on this notice will be rated at MSL1 260 at the expiration of this FPCN.



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AFFECTED DEVICE LIST

PART

BCP68T1
BCP68T1G
BSP52T1
BSP52T1G
BSP52T3
BSP52T3G
MAC08BT1G
MAC08MT1G
MCR08BT1G
MCR08MT1G
MMFT2406T1
MMFT2406T1G
MMFT2406T3
MMFT2955ET1
MMFT2955ET1G
MMFT3055ET1
MMFT3055VLT1
MMFT3055VLT3
MMFT3055VLT3-LF
MMFT3055VT1
MMFT3055VT1G
MMFT960T1
MMFT960T1G
MMJT350T1
MMJT350T1G
MMJT9410T1
MMJT9410T1G
MMJT9435T1
MMJT9435T1G
MMJT9435T3
MMJT9435T3G
NIF5002NT1
NIF5002NT1G
NIF5002NT3
NIF5002NT3G
NIF5003NT1
NIF5003NT1G
NIF5003NT3
NIF5003NT3G
NIF62514T1
NIF62514T1G
NIF62514T3G
NIF9N05CLT1
NIF9N05CLT1G
NIF9N05CLT3
NIF9N05CLT3G
NJT4030PT1G
NJT4030PT3G
NMFT3055AVLT1
NMFT3055AVLT3
NSB9435T1
NSB9435T1G



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NTF2955T1
NTF2955T1G
NTF3055-100T1
NTF3055-100T1G
NTF3055-100T3
NTF3055-100T3G
NTF3055-100T3LF
NTF3055-160T1G
NTF3055L108T1
NTF3055L108T1G
NTF3055L108T3
NTF3055L108T3G
NTF3055L108T3LF
NTF3055L108T3LFG
NTF3055L175T1
NTF3055L175T1G
NTF5P03T3
NTF5P03T3G
NTF6P02T3
NTF6P02T3G
NYT103MSTT1G
NYT103NA1
NYT103NSTT1G
PZT651T1
PZT651T1G
PZT751T1
PZT751T1G
SCR5129SG
SMBF1066T1
SMBT1581LT3
SMBT1587T1
SMBT1587T1G
SMFT3055VT3
SMFT3355VLT3
SSVPZT751T1
SSVPZT751T1G
SZT651T1