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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION**  
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**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](mailto: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](mailto: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](http://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