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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION**  
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**26-Aug-2005**

**SUBJECT: ON Semiconductor Final Product/Process Change Notification #15009**

**TITLE: Final PCN for NLAS4684 ESD Redesign moving from 0.5u CMOS process to 0.6u in Tower.**

**EFFECTIVE DATE: 26-Oct-2005**

**AFFECTED CHANGE CATEGORY(S): Wafer Process**

**AFFECTED PRODUCT DIVISION(S): Logic Products**

**ADDITIONAL RELIABILITY DATA:** Available

Contact your local ON Semiconductor Sales Office or Ken Fergus <rrst50@onsemi.com>

**SAMPLES:** Contact your local ON Semiconductor Sales Office or  
Anna Carmona <fftzdc@onsemi.com>

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or Lyle Stewart <rjj930@onsemi.com>

**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs 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 the Final Product Change Notification to provide customer awareness of the Performance Enhancement Redesign for NLAS4684 series products. ESD performance is now elevated by an order of magnitude to HBM >4000V and MM >400V. This redesign also enables move from the Tower 0.5 micron CMOS process to the Tower 0.6 micron CMOS process for the benefit of increased electrical performance.



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**RELIABILITY DATA SUMMARY:**

Reliability Results:

The NLAS4684MN ESD redesign reliability results are:

| Reliability test<br>----- | Conditions<br>-----                  | Test Results<br>----- |
|---------------------------|--------------------------------------|-----------------------|
| Precond (PC)              | MSL1, 260C 3X IR, 0/80 x 2 lots      | Zero Failures         |
| PC+Temp Cycle             | 500 cycles, -65/+150C, 0/80 x 2 lots | Zero Failures         |
| Temp Cycle                | 500 cycles, -65/+150C, 0/80 x 2 lots | Zero Failures         |

**ELECTRICAL CHARACTERISTIC SUMMARY:**

Available upon request.

**CHANGED PART IDENTIFICATION:**

Product with date code WW41 or later.

**AFFECTED DEVICE LIST**

**Part**

- NLAS4684FCT1
- NLAS4684FCT1G
- NLAS4684MNR2
- NLAS4684MNR2G
- NLAS4684MR2
- NLAS4684MR2G