



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 20779Generic Copy

Issue Date: 12-Feb-2015**TITLE:** NCP3170 Die Revision on SOIC-8 MCM Package**PROPOSED FIRST SHIP DATE:** 19-May-2015**AFFECTED CHANGE CATEGORY(S):** ON Semiconductor Manufacturing Assembly**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or Rob Prestoza <rob.prestoza@onsemi.com>**SAMPLES:** Contact your local ON Semiconductor Sales Office**ADDITIONAL RELIABILITY DATA:** AvailableContact your local ON Semiconductor Sales Office or Tomas Vajter <tomas.vajter@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 pleased to announce replacing the Low Side FET die of the NCP3170 from Z00X to Z02Y, as part of its ongoing effort to improve product availability. The replacement die has slight difference in the form factor (X/Y) as compared to the existing die. However it has the same performance and pin assignment.

The replacement die is fabricated in the same Trench process at ON Semiconductor's 8 inch Wafer Fab in Gresham, Oregon, USA.

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 20779****RELIABILITY DATA SUMMARY:****Reliability Test Results: NCP3170ADR2G**

| Test | | Conditions | Results |
|-------------|-----------------------------------|---|----------------|
| HTOL | High Temp Op Life | TA=125C; 2016hrs | 0/240 |
| HTSL | High Temp Storage Life | TA=175C; 1008hrs | 0/240 |
| HTSLx | High Temp Storage Life Special | TA=150C; 2520hrs | 0/240 |
| RSH | Resistance to Solder Heat | TA=245C; | 0/90 |
| PC | Moisture Preconditioning | MSL1 @ 260C | 0/240 |
| UHASt-PC | Pre-con Unbiased HAST | TA=130C; RH=85%; PSIG=18.8; 192hrs | 0/240 |
| TC-PC | Pre-con Temp Cycle | -65 to +150C; 2000cycs | 0/240 |
| HAST-PC | Pre-con HAST | TA=130C; RH=85%; PSIG=18.8; bias; 192hrs | 0/240 |

ELECTRICAL CHARACTERISTIC SUMMARY:

There is no change in the Electrical Parametric performance. Characterization data is available upon request.

CHANGED PART IDENTIFICATION:

There is no physical change with the part top marking.

List of affected General Parts:

NCP3170ADR2G
NCP3170BDR2G