



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16790GJ

Generic Copy

Issue Date: 08-Nov-2014

TITLE: Final PCN for wafer fabrication site addition of ON Semiconductor Niigata Co., Ltd. in Niigata, Japan (Group GJ).

PROPOSED FIRST SHIP DATE: starting on 08-Feb-2015 (the actual ship date will be different by each product, please check the responsible Sales person).

AFFECTED CHANGE CATEGORY(S): Wafer Fabrication Site Addition

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Yasuhiro.Igarashi@onsemi.com.

SAMPLES: Contact your local ON Semiconductor Sales Office or Shigehito.Matsumoto@onsemi.com

ADDITIONAL RELIABILITY DATA: May be available

Contact your local ON Semiconductor Sales Office or Kazutoshi.Kitazume@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:

This is a Final Process Change Notification to announce about expanding from conventional Manufacturers AMPI to newly wafer fabrication site. Additional fabrication site is ON Semiconductor Niigata Co., Ltd.(OSNC). OSNC is located in Niigata, Japan, obtained ISO9001 certification.

The product design and electrical specifications will remain identical. A full electrical characterization over the temperature range will be performed for each product to check the device functionality and electrical specifications. Qualification tests are designed to show that the reliability of transferred devices will continue to meet or exceed ON Semiconductor standards.



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16790GJ

RELIABILITY DATA SUMMARY

Group GJ

| Test: | Conditions: | Interval: | Results |
|---------------------------------------|---|------------|---------|
| Steady State Operating Life | Tj=150degC | 1000 hrs | Pass |
| High Temperature Reverse Bias | Ta=150degC, VDSS =max | 1000 hrs | Pass |
| Temp Humidity Storage | Ta=85degC, RH=85% | 1000 hrs | Pass |
| Temperature Cycle | Ta=-55degC to 150degC 30min each | 100 cycles | Pass |
| Pressure Cooker | Ta=121degC, 2.03 × 10 ⁵ Pa, 100% | 50 hrs | Pass |
| High Temperature Storage | Ta=150degC | 1000 hrs | Pass |
| Resistance to Soldering heat (Reflow) | Solder Temp.: 260degC ± 5degC | 10 s | Pass |
| Solderability | Solder Temp.: 245degC ± 5degC | 5 s | Pass |

ELECTRICAL CHARACTERISTIC SUMMARY

There is no change in the electrical performance. Datasheet specifications remain unchanged.

CHANGED PART IDENTIFICATION

No change to current part marking will occur. Marking traceability codes will be able to identify wafer fab die source.

List of affected Generic parts:

Group GJ

| PART_ID |
|----------------|
| MCH3377-TL-E |
| MCH3377-S-TL-E |
| MCH3377-TL-H |