



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20387

Generic Copy

Issue Date: 13-Mar-2014

TITLE: Copper Wire for PIR ASIC in SOIC150 in Carmona, Philippines

PROPOSED FIRST SHIP DATE: 13-Jun-2014

AFFECTED CHANGE CATEGORY(S): Wire bonding

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office

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 for the below contents.

1. Change of wire material from gold to copper.

The product design and electrical specifications will remain identical.

Reliability Qualification and full electrical characterization over temperature have been completed on the designated package qualification vehicle.

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20387****RELIABILITY DATA SUMMARY:****Reliability Test Results:**

Test Items	Test Conditions	Test Time	Results
Preconditioning	IR @ 260 deg C	3x	0 Failures / PASS
High Temp Storage Life	Temp = +150°C	1008 hrs	0 Failures / PASS
Temp Cycle + Preconditioning	Temp = -65°C to +150°C	500 cycles	0 Failures / PASS
Bias Highly Accelerated Stress Test + Preconditioning	Temp = +130°C; RH = 85%, psig ~28	96 hrs	0 Failures / PASS
Autoclave + Preconditioning	Temp = +121°C; RH = 100%, psig ~15	96 hrs	0 Failures / PASS
Bond Pull Strength	CpK > 1.33	5 parts/30 bonds	0 Failures / PASS
Bond Shear	CpK > 1.33	5 parts/30 bonds	0 Failures / PASS

ELECTRICAL CHARACTERISTIC SUMMARY:

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

CHANGED PART IDENTIFICATION:

There is no change in the part identification. Datasheet specifications remain unchanged.

List of affected General Parts:

NCS36000DRG
NCS36000DG

List of affected Customer Specific Parts:

20800-005-XTP
20800-005-XTD