



Final Product/Process Change Notification

Document #:FPCN23493X

Issue Date:07 Apr 2021

Title of Change:	Additional assembly site ON Semiconductor Philippines, Inc. Tarlac for QFN-16 3X3 parts.
Proposed First Ship date:	14 Jul 2021 or earlier if approved by customer
Contact Information:	Contact your local ON Semiconductor Sales Office or Peter.Vo@onsemi.com
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or < PCN.samples@onsemi.com >. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or Phine.Guevarra@onsemi.com
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Affected parts can be identified by the assembly site code in the traceability code.
Change Category:	Assembly Change
Change Sub-Category(s):	Shipping/Packaging/Marking, Manufacturing Site Addition

Sites Affected:**ON Semiconductor Sites**

ON Semiconductor Tarlac, Philippines

External Foundry/Subcon Sites

None

Description and Purpose:

This final notification is to inform the completed qualification for assembly manufacturing including tin plating process for QFN-16 3X3 with 0.8 mil gold wire and matte tin lead finish at ON Semiconductor Philippines, Inc. Tarlac site. The new site will allow dual source manufacturing of the affected products for increased capacity and manufacturing flexibility.

There are no product material changes as a result of this change.

Product marking change will only be in the traceability code for the assembly site code.

	From	To
Assembly site	UTAC Thailand	UTAC Thailand ON Semiconductor – Tarlac
Assembly tin plating site	UTAC Thailand	UTAC Thailand ON Semiconductor – Tarlac ON Semiconductor – Carmona
Product marking change	Assembly site code for UTAC Thailand	Either Assembly site code for UTAC or ON Semiconductor – Tarlac

**Reliability Data Summary:**QV DEVICE NAME: NCS37014MNTWGRMS: 71143PACKAGE: QFN-16 3X3

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/239
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/234
TC-PC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/235
HAST-PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/244
UHAST-PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/267
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C		Pass
PD	JESD-B100	Min Cpk 1.67		Pass
SD	JESD22- B106	Ta = 245C		0/45

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
NCS37010MNTWG	NCS37014MNTWG
NCS37014MNTWG	NCS37014MNTWG