



Final Product/Process Change Notification

Document #:FPCN23436X

Issue Date:19 Jan 2021

Title of Change:	P2 ETS364 Test Enablement at UTL for NCP81239/A. Package: QFN32 5*5*0.9 mm.	
Proposed First Ship date:	26 Apr 2021 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or Jolo.Manga@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 Paul.Syndergaard@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:	Test origin can be distinguished thru the Serial# portion on the MPN label: PO is for ON Semiconductor Carmona & GU is for UTAC Thailand.	
Change Category:	Test Change	
Change Sub-Category(s):	Manufacturing Site Addition	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
ON Semiconductor Carmona, Philippines	UTAC, Thailand	
Description and Purpose:		
	Before Change Description	After Change Description
Location	ON Semiconductor Philippines Inc. – Carmona	ON Semiconductor Philippines Inc. – Carmona UTAC Thailand Ltd. (TH6)
<p>There are no product material changes as a result of this change.</p> <p>There is no product marking change as a result of this change.</p>		

**Qualification Results:**

Qualification Items/Steps	Quality Characteristic / Response to be Monitored (Input, in-process, Output)	Test /Condition	Sample Size	Accept Criteria / Result	Results Summary - Pass/Fail
Key Parameter Electrical Distribution Comparison (Carmona & Cebu)	Between Carmona and UTL: <ul style="list-style-type: none"> Correlation GRR Spike Check Cpk 	FT Room Temp 25°C	4, 1 unit per site 1 unit x30 loop/site 1 unit on 1 site Lot qty	<10% on critical items <10% No more than AMR >1.67	Pass Pass Pass Pass
Reject Bin Analysis	KBU or Escape rate	FT Room Temp 25°C	All KBU or ESC	Bin out correctly	Pass
Test (Yield, GDPW, Correlation, etc.)	Test fresh lots on each qual vehicle	FT Room Temp 25°C	Yield validation: 3 lots (3000 units ea) Lot Correlation: 1 lot (500 units)	90% Yield min 1% max difference, base from Carmona	Pass Pass
Electrical QA	Auto QA process per lot	FT Room Temp 25°C	490 units per lot	0 QA reject	Pass

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
NCP81239MNTXG	NCP81239MNTXG
NCP81239AMNTXG	NCP81239MNTXG