



Initial Product/Process Change Notification

Document #: IPCN24566Z

Issue Date: 07 Apr 2022

Title of Change:	Additional Assembly Site - Dual Source at UTAC Site 3	
Proposed Changed Material First Ship Date:	27 Jan 2023 or earlier if approved by customer	
Current Material Last Order Date:	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>	
Current Material Last Delivery Date:	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>	
Product Category:	Active components – Integrated circuits	
Contact information:	Contact your local onsemi Sales Office	
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local onsemi Sales Office or Shiela.Crosby@onsemi.com	
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 6 months prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >.	
Change Category		
Category	Type of Change	
Process - Assembly	Move of all or part of assembly to a different location/site/subcontractor.	
Description and Purpose:		
There is no BOM changes other than adding UTAC 3 as additional site to assembly.		
	Before Change Description	After Change Description
Assembly Site	UTAC 1	UTAC 1 and UTAC 3
Reason / Motivation for Change:		
Source/Supply/Capacity Changes		
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.	



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Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
None	UTAC, Thailand
Marking of Parts/ Traceability of Change:	Traceability by date code

Reliability Data Summary:

QV DEVICE NAME NCV70517MW001R2G

RMS 82704

PACKAGE QFNW

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs, 2016 hrs
HTSL	JESD22-A103	Ta= 175°C	1008 hrs, 1512 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc, 2000cyc
HAST	JESD22-A110	110°C, 85% RH, 18.8psig, bias	264 hrs
uHAST	JESD22-A118	110°C, 85% RH, 18.8psig, unbiased	264 hrs
PTC	JESD22 A105	Ta = -40°C to +125°C	1000 cyc
ELFR	AEC-Q100-008	Ta= 125°C	48 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
SD	JSTD002	Ta = 245C, 5 sec	
PD	JESD22 B100,B108	Critical Cpk>1.67	

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](#).

Current Part Number	New Part Number	Qualification Vehicle
NCV70514MW004AR2G	NA	NCV70517MW001R2G
NCV70516MW1AR2G	NA	NCV70517MW001R2G
NCV70517MW002R2G	NA	NCV70517MW001R2G
NCV70514MW007AR2G	NA	NCV70517MW001R2G
NCV70517MW001R2G	NA	NCV70517MW001R2G