



Title of Change:	Assembly Process Change for improving quality of NCV7342MW3R2G wettable flank package from Electroless plating to Electroplate Step Cut at UTAC (Thailand).
Proposed Changed Material First Ship Date:	02 Apr 2021 or earlier if approved by customer
Current Material Last Order Date:	31 Dec 2020 <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:	01 Apr 2021 <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 ON Semiconductor Sales Office or Stanley.Memita@onsemi.com
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office to place sample order or PCN.samples@onsemi.com 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.
Sample Availability Date:	01 Sep 2020
PPAP Availability Date:	01 Sep 2020
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or Daniel.Vanderstraeten@onsemi.com
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 12 months prior to implementation of the change or earlier upon customer approval. ON Semiconductor will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com

Change Category

Category	Type of Change
Process - Assembly	Change of lead and heat slug plating material/plating thickness (external)

Description and Purpose:

This Process notification announces the change of NCV7342MW3R2G package from Electroless plating to Electroplate Step Cut at UTAC (Thailand).

The electro plate step cut process improves the quality of soldering by forming consistent side filled to perform AOI (Auto Optical Inspection) and increases the shelf life from 1 to 2 years.

	Before Change Description	After Change Description
Coating Coverage	95% minimum of flank area	50% minimum of flank area
Coating thickness (flank)	1.5 to 2.0 micron	5 to 15 micron
Dry re-bake	Not applicable	Applicable



Reason / Motivation for Change:	Process/Materials Change			
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 ON Semiconductor in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.			
Sites Affected:				
ON Semiconductor Sites			External Foundry/Subcon Sites	
None			UTAC, Thailand	
Marking of Parts/ Traceability of Change:	Datecode 2101 (wk01 2021) or later.			
Reliability Data Summary:				
<p>QV DEVICE NAME: ON344-OAA RMS# : O37355 PACKAGE : DFN</p>				
Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 150°C, 100 % max rated Vcc	1650 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1000 hrs	0/231
TC	JESD22-A104	Ta= -55°C to +150°C	2000 cyc	0/231
HAST	JESD22-A110	110°C, 85% RH, ~3psig, bias	264 hrs	0/231
uHAST	JESD22-A118	110°C, 85% RH, ~3psig, unbiased	264 hrs	0/231
PC	J-STD-020 JESD-A113	MSL __1__@ __260 °C		
RSH	JESD22- B106	Ta = 265C, 10 sec		
SD	JSTD002	Ta = 245C, 10 sec		0/15
<p>NOTE: AEC-1pager is attached.</p> <p>To view attachments:</p> <ol style="list-style-type: none"> 1. Download pdf copy of the PCN to your computer 2. Open the downloaded pdf copy of the PCN 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field 4. Then click on the attached file/s 				
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
NCV7342MW3R2G	NCV7342MW3R2G	0N344-OAA



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCV7342MW3R2G		0N344-OAA	NCV7342MW3R2G	