



# Final Product/Process Change Notification

Document #:FPCN23992Z

Issue Date:11 Oct 2021

<b>Title of Change:</b>	Add Plasma Clean prior Mold process
<b>Proposed Changed Material First Ship Date:</b>	18 Apr 2022 or earlier if approved by customer
<b>Current Material Last Order Date:</b>	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>
<b>Current Material Last Delivery Date:</b>	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>
<b>Product Category:</b>	Active components – Integrated circuits
<b>Contact information:</b>	Contact your local onsemi Sales Office or <a href="mailto:David.Craig@onsemi.com">David.Craig@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office to place sample order or < <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> >. 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.
<b>Sample Availability Date:</b>	N/A
<b>PPAP Availability Date:</b>	N/A
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Nicky.Siu@onsemi.com">Nicky.Siu@onsemi.com</a>
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi 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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> .
<b>Change Category</b>	
<b>Category</b>	<b>Type of Change</b>
Process - Assembly	Change of specified assembly process sequence (deletion and/or additional process step)
<b>Description and Purpose:</b>	
Pre-mold plasma clean operation is being added to the assembly process to improve adhesion. There are no product material changes as a result of this change. There is no product marking change as a result of this change.	
<b>Reason / Motivation for Change:</b>	Process/Materials Change
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	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.

<b>Sites Affected:</b>				
<b>onsemi Sites</b>		<b>External Foundry/Subcon Sites</b>		
onsemi Carmona, Philippines		None		
<b>Marking of Parts/ Traceability of Change:</b>		Same		
<b>Reliability Data Summary:</b>				
<b>QV DEVICE NAME: NCV57255DR2G</b>				
<b>RMS: O68223</b>				
<b>PACKAGE: SOIC-16W</b>				
Test	Specification	Condition	Interval	Results
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
HTBB		Ta= 125 °C	2016 hrs	0/231
HTOL	JESD22-A108	Ta = 125 °C, 100 % max rated Vcc	2016 hrs	0/231
HTSL	JESD22-A103	Ta= 150 °C	2016 hrs	0/231
HVTHB		85 °C, 60% RH	336 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/231
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SAT		Precon Level = MSL 1 @ 260 °C		0/75
SD	JSTD002	Ta = 245C, 5 sec		0/45
TC	JESD22-A104	Ta= -65 °C to +150 °C	1000 cyc	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	192 hrs	0/231
<b>NOTE: AEC-1pager is attached.</b>				
<i>To view attachments:</i>				
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				
<b>Electrical Characteristics Summary:</b>				
Electrical characteristics are not impacted.				



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### 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
NCV57080CDR2G	N/A	NCV57255DR2G
NCV57080BDR2G	N/A	NCV57255DR2G
NCV57080ADR2G	N/A	NCV57255DR2G
NCV57200DR2G	N/A	NCV57255DR2G
NCV57201DR2G	N/A	NCV57255DR2G