



Final Product/Process Change Notification

Document #:FPCN24325X

Issue Date:12 Oct 2021

Title of Change:	Add Plasma Clean prior to Mold process (Industrial)			
Proposed First Ship date:	19 Jan 2022 or earlier if approved by customer			
Contact Information:	Contact your local onsemi Sales Office or David.Craig@onsemi.com			
PCN Samples Contact:	Contact your local onsemi 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 onsemi Sales Office or Nicky.Siu@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. onsemi 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:	Same			
Change Category:	Assembly Change			
Change Sub-Category(s):	Manufacturing Process Change			
Sites Affected:				
onsemi Sites	External Foundry/Subcon Sites			
onsemi Carmona, Philippines	None			
Description and Purpose: 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.				
Reliability Data Summary: QV DEVICE NAME: NCV57255DR2G RMS: O68223 PACKAGE: SOIC-16W				
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



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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

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
NCD57080CDR2G	NCV57255DR2G
NCD57080BDR2G	NCV57255DR2G
NCD57080ADR2G	NCV57255DR2G
NCD57201DR2G	NCV57255DR2G
NCD57200DR2G	NCV57255DR2G