



# Final Product/Process Change Notification

Document #:FPCN23848XA

Issue Date:10 Aug 2021

<b>Title of Change:</b>	Wire conversion from 1.0mil Au to 1.0mil Cu for device NUD4001DR2G on SO-8 COMP PBFH package.	
<b>Proposed First Ship date:</b>	17 Nov 2021 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office	
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office or < <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> >. 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.	
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office	
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	Customers may receive this parts once FPCN expired. This parts can be identified through date code marking.	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>	
ON Semiconductor Carmona, Philippines	None	
<b>Description and Purpose:</b>		
Conversion of 1.0mil Au to 1.0mil Cu wire for package SO-08 COMP PBFH package on selected device.		
	<b>Before Change Description</b>	<b>After Change Description</b>
Bond Wire	99.00% MIN PURE GOLD 1% Pd Doped	Copper Wire 99.99% (min)
There is no product marking change as a result of this change.		

**Reliability Data Summary:**

QV DEVICE NAME: NSVD4001DR2G

RMS: O77059 / O71113

PACKAGE: SOIC 8

Test	Specification	Condition	Interval	Results
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/240
AC	JESD22-A102	121°C, 100% RH, 15psig	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C		0/960
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30

**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
NUD4001DR2G	NSVD4001DR2G