



<b>Title of Change:</b>	New Product NCV7240BDPR2G to Replace NCV7240ADPR2G.
<b>Proposed Changed Material First Ship Date:</b>	21 June 2019 <i>or earlier upon customer approval.</i>
<b>Current Material Last Order Date:</b>	N/A 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.
<b>Current Material Last Delivery Date:</b>	N/A The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory.
<b>Product Category:</b>	Active components – Integrated circuits
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or < <a href="mailto:bill.fontes@onsemi.com">bill.fontes@onsemi.com</a> >
<b>Samples:</b>	Contact your local ON Semiconductor 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.
<b>Sample Availability Date:</b>	1 June 2018
<b>PPAP Availability Date:</b>	15 August 2018
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or < <a href="mailto:peter.turlo@onsemi.com">peter.turlo@onsemi.com</a> >.
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> .
<b>Change Category</b>	<b>Type of Change</b>
Design	Design Change in Active Elements
Design	Design Change in Routing
Data Sheet	Change of datasheet parameters/electrical specification (min./max./typ. values) and/or AC/DC specification

**Description and Purpose:**

Device design is updated to optimize performance. In particular, lower power-on reset threshold allows for a wider range of operation, especially during battery cranking.

Datasheet is updated to show the tightened spec for this parameter.

NCV7240 / NCV7240A Power-on Reset threshold (VDDA)	VDDA rising	-	3.80	4.15	V
NCV7240 / NCV7240A Power-on Reset hysteresis (VDDA)		150	200	350	mV
NCV7240B Power-on Reset threshold (VDDA)	VDDA rising	-	3.60	3.85	V
NCV7240B Power-on Reset threshold (VDDA)	VDDA falling	3.00	3.30	3.50	V
NCV7240B Power-on Reset hysteresis (VDDA)		150	200	350	mV



<b>Reason / Motivation for Change:</b>	<p><b>Change Benefit:</b> Improved device performance, including the power-on reset parameter mentioned above.  <b>Risk for Late Release:</b> Delay in shipment of improved product.  <b>Quality Improvement:</b> Device optimization will reduce the chance of application related problems.</p>	
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability</b>	<p>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.</p> <p>No anticipated impacts.</p>	
<b>Sites Affected:</b>	ON Semiconductor Sites: ON Gresham, Oregon	External Foundry/Subcon Sites: None
<b>Marking of Parts/ Traceability of Change:</b>	Line one package marking will change from NCV7240A to NCV7240B.	

**Reliability Data Summary:**

**QV DEVICE NAME:** NCV7240BDPR2G  
**RMS:** 36906 and 37023  
**PACKAGE:** SSOP 24

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=150°C, 100 % max rated Vcc	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 175°C	1000 hrs	0/85
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/245
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/242
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 2 @ 260 °C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/ 15

**Note: AEC-1 pager is attached.**

To access file attachments on pdf copy of PCN, please be guided by the steps below:

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 Characteristic Summary:**

Power-on reset specification is tightened. Other electrical characteristics are not impacted.



**List of Affected Standard Parts:**

Current Part Number	New Part Number	Qualification Vehicle
NCV7240ADPR2G	NCV7240BDPR2G	NCV7240BDPR2G



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## Appendix A: Changed Products

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Product	Customer Part Number	New Part Number	Qualification Vehicle
NCV7240ADPR2G		NCV7240BDPR2G	NCV7240BDPR2G