

# Final Product/Process Change Notification

Document # : FPCN22642Z Issue Date: 27 February 2019

Title of Change:	Datasheet modification to adjust Vin test conditions for Load Regulation, Output Current Limit and Short Circuit current for the NCV8177 product family.		
Proposed Changed Material First Ship Date:	1 March 2020 or earlier with customer approval.		
Current Material Last Order Date:	Not Applicable		
Current Material Last Delivery Date:	Not Applicable The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory.		
Product Category:	Active components – Integrated circuits		
Contact information:	Contact your local ON Semiconductor Sales Office or < Milos. Dvorak@onsemi.com >		
Samples:	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.		
Sample Availability Date:	1 March 2019		
PPAP Availability Date:	Not Applicable.		
Additional Reliability Data:	Not Applicable.		
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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> .		
Change Category	Type of Change		
Data Sheet	Change of datasheet parameters/electrical specification (min./max./typ. values) and/or AC/DC specification Specification of additional parameters		

### **Description and Purpose:**

The product datasheet will be updated to correct VIN for below mentioned tests (Load Regulation, Output Current Limit and Short Circuit Current) and to add a new Output Current Limit test for VIN=1.6V. The change affects parts with output voltage 1.2V and below.

	Before datasheet change After datasheet change			
	Test Conditions	Test Conditions	QA	QA
			Тур	MAX
	1 mA ≤ IOUT ≤ 500 mA,	1 mA ≤ IOUT ≤ 500 mA,		
Load Regulation	VIN = VOUT-NOM + 0.5 V or VIN =1.6V	VIN = VOUT-NOM + 0.5 V or VIN = 1.75 V		
	(whichever is higher)	(whichever is higher)		
Output Current Limit	VOUT = VOUT-NOM - 100 mV,	VOUT = VOUT-NOM - 100 mV		
	VIN = VOUT-NOM + 0.5 V or VIN =1.6V	VIN = VOUT-NOM + 0.5 V or VIN = 1.75 V		
	(whichever is higher)	(whichever is higher)		
Output Current Limit		VOUT = VOUT-NOM - 100 mV		
(New test in the datasheet)		VIN = VOUT-NOM + 0.5 V or VIN = 1.6 V	300	600
		(whichever is higher)		
	VOUT = 0 V,	VOUT = 0 V,		
Short Circuit Current	VIN = VOUT-NOM + 0.5 V or VIN =1.6V	VIN = VOUT-NOM + 0.5 V or VIN = 1.75 V		
	(whichever is higher)	(whichever is higher)		

There has been no change in product manufacturing, die design, or bill of material.

There are no product material changes as a result of this change.

There are no marking changes as a result of this change.

TEM001794 Rev. B Page 1 of 2



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Reason / Motivation for Change:	<ul> <li>Change benefits for customer: Supply continuity</li> <li>Risk for late release for customer: Supply disruption</li> </ul>			
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: All Sites	External Foundry/Subcon Sites: All Sites		
Marking of Parts/ Traceability of Change:	There are no changes to product marking or package labeling. Product traceability and ship history will distinguish product before and after this notification.			

#### **Reliability Data Summary:**

Not applicable.

#### **Electrical Characteristic Summary:**

Electrical characteristics (specifications) are changed as noted in the document description. This change is to specification forcing functions only, as defined in the datasheet.

### **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	Qualification Vehicle
NCV8177AMX075TCG	
NCV8177AMX120TCG	
NCV8177BMX075TCG	
NCV8177BMX120TCG	NA
NCV8177AMTW090TCG	
NCV8177AMTW110TCG	
NCV8177AMTW120TCG	

TEM001794 Rev. B Page 2 of 2

## **Appendix A: Changed Products**

Product	Customer Part Number	New Part Number	Qualification Vehicle
NCV8177AMTW090TCG		NA	NA
NCV8177AMTW110TCG		NA	NA
NCV8177AMTW120TCG		NA	NA
NCV8177AMX075TCG		NA	NA
NCV8177AMX120TCG		NA	NA
NCV8177BMX075TCG		NA	NA
NCV8177BMX120TCG		NA	NA