ON Semiconductor®

Final Product/Process Change Notification

Document # : FPCN22642X
Issue Date: 28 February 2019

Title of Change:	Datasheet modification to adjust Vin test conditions for Load Regulation, Output Current Limit and Short Circuit current for the NCP177 product family.
Proposed first ship date:	4 June 2019 *or earlier with customer approval.*
Contact information:	Contact your local ON Semiconductor Sales Office or <Milos.Dvorak@onsemi.com>
Samples:	Contact your local ON Semiconductor 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.
Additional Reliability Data:	Not Applicable.
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. 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 <PCN.Support@onsemi.com>
Change Part Identification:	There are no changes to product marking or package labeling. Product traceability and ship history will distinguish product before and after this notification.
Change Category:	☐ Wafer Fab Change ☐ Assembly Change ☑ Test Change ☑ Other datasheet specification

Change Sub-Category(s):

☐ Manufacturing Site Addition
☐ Manufacturing Site Transfer
☐ Manufacturing Process Change
☐ Material Change
☑ Product specific change
☑ Datasheet/Product Doc change
☐ Shipping/Packaging/Marking
☐ Other: _____

Sites Affected:	ON Semiconductor Sites: All Sites	External Foundry/Subcon Sites: All Sites

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
			Typ	MAX
Load Regulation	1 mA ≤ IOUT ≤ 500 mA, VIN = VOUT−NOM + 0.5 V or VIN =1.6V (whichever is higher)	1 mA ≤ IOUT ≤ 500 mA, VIN = VOUT−NOM + 0.5 V or VIN = 1.75 V (whichever is higher)		
Output Current Limit	VOUT = VOUT−NOM − 100 mV, VIN = VOUT−NOM + 0.5 V or VIN =1.6V (whichever is higher)	VOUT = VOUT−NOM − 100 mV VIN = VOUT−NOM + 0.5 V or VIN = 1.75 V (whichever is higher)		
Output Current Limit (New test in the datasheet)		VOUT = VOUT−NOM − 100 mV VIN = VOUT−NOM + 0.5 V or VIN = 1.6 V (whichever is higher)	300	600
Short Circuit Current	VOUT = 0 V, VIN = VOUT−NOM + 0.5 V or VIN =1.6V (whichever is higher)	VOUT = 0 V, VIN = VOUT−NOM + 0.5 V or VIN = 1.75 V (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.

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.**

Part Number	Qualification Vehicle
NCP177AMX070TCG	NA
NCP177AMX090TCG	
NCP177AMX100TCG	
NCP177AMX110TCG	
NCP177AMX120TCG	
NCP177BMX070TCG	
NCP177BMX100TCG	
NCP177BMX110TCG	
NCP177BMX120TCG	

Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle
NCP177AMX070TCG		NA
NCP177AMX100TCG		NA
NCP177AMX110TCG		NA
NCP177AMX120TCG		NA
NCP177BMX070TCG		NA
NCP177BMX100TCG		NA
NCP177BMX110TCG		NA
NCP177BMX120TCG		NA