



PRODUCT BULLETIN
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11-Dec-2008

SUBJECT: ON Semiconductor Product Bulletin #PB16182

TITLE: NCP1606 VZCD Datasheet Modification

PROPOSED FIRST SHIP DATE: 15-Dec-2008

AFFECTED PRODUCT DIVISION: Automotive and Power Regulation Group (APRG)

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor sales office or Scott Brow <Scott.Brow@onsemi.com>

NOTIFICATION TYPE:

ON Semiconductor considers this change approved unless specific conditions of acceptance are provided in writing. To do so, contact your local ON Semiconductor sales office.

DESCRIPTION AND PURPOSE:

Test methodology improvements indicate that prior limits set were incorrectly and the limits will be update to reflect true product performance. There is no change to the device.

The limits changed will be as follows:

Current Data Sheet:

Symbol	Rating	Min	Typ	Max	Unit
V _{ZCDH}	Zero Current Detection Threshold (V _{ZCD} rising)	2.1	2.3	2.5	V
V _{ZCDL}	Zero Current Detection Threshold (V _{ZCD} falling)	1.5	1.6	1.8	V
V _{ZCDHYS}	V _{ZCDH} - V _{ZCDL}	500	700	900	mV

New Data Sheet:

Characteristics	Symbol	Min	Typ	Max	Unit
Zero Current Detection Threshold (V _{ZCD} rising)	V _{ZCDH}	1.9	2.1	2.3	V
Zero Current Detection Threshold (V _{ZCD} falling)	V _{ZCDL}	1.45	1.6	1.75	V
V _{ZCDH} - V _{ZCDL}	V _{ZCD(HYS)}	300	500	800	mV

Also, the following changes will be applied to the maximum rating table of the data sheet to reflect the products true product capability.

Pins	Old Max Rating	New Max Rating
CT, CS	-0.3V, 9V	-0.3V, 6V



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AFFECTED DEVICE LIST

NCP1606ADR2G
NCP1606BDR2G
NCP1606APG
NCP1606BPG