



PRODUCT BULLETIN
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03 Aug 2007

SUBJECT: ON Semiconductor Product Bulletin #16032

TITLE: NCP5603 High Efficiency Charge Pump Converter Datasheet Update

PROPOSED FIRST SHIP DATE: 03 Aug 2007

AFFECTED PRODUCT DIVISION: Digital Consumer Group

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor sales office or Todd Manes at <todd.manes@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:

On Semiconductor is announcing a datasheet update for the NCP5603 High Efficiency Charge Pump Converter.

This change affects the conditions for "Output Voltage Regulation" and "Continuous DC Load Current" parameters shown in the Electrical Characteristics table on Page 6.

This change is necessary to more closely match the guaranteed performance to the intended application in which Li Ion batteries are used to drive White LED's. Because the maximum battery voltage in such cases is 4.2V, the datasheet is being updated to reflect a test condition with Vbat = 4.3V maximum.

The datasheet will now read as follows for the affected tests:

Characteristic	Pin	Symbol	Min	Typ	Max	Units
Output Voltage Regulation	3	Vout				V
@ Vsel = 1, 3.2V < Vbat < 4.3V			4.75	5.0	5.25	
@ Vsel = 0, 2.85V < Vbat < 4.3V			4.275	4.5	4.725	
Continuous DC Load Current	3	Iout				mA
Cin = 1.0uF, Cfly= 1.0uF, Cout = 1.0uF						
@ Vel = 1, 3.2V < Vbat < 4.3V			--	--	160	
@ Vel = 0, 3.2V < Vbat < 4.3V			--	--	200	
@ Vel = 1, 2.85V < Vbat < 4.3V			--	--	80	
@ Vel = 0, 2.85V < Vbat < 4.3V			--	--	120	

We apologize for any inconvenience but believe this change is necessary to ensure the most accurate matching of the device specification to the intended application.



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AFFECTED DEVICE LIST

NCP5603MNR2
NCP5603MNR2G