

PRODUCT BULLETIN # 20321

Generic Copy

Issue Date: 19-Dec-2013

TITLE: NCV7381 Data sheet update

PROPOSED FIRST SHIP DATE: 19-Dec-2013

AFFECTED CHANGE CATEGORY(S): Specification Change

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor sales office or <roman.buzas@onsemi.com>

NOTIFICATION TYPE:

ON Semiconductor considers this change approved unless specific conditions of acceptance are provided in writing. To do so, contact <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

Electrical characteristics:

1. Table 11 : Current Consumption - iV_{BAT-NORM.} Maximum limit changed **from 1mA to 1.25mA ELECTRICAL CHARACTERISTICS**

The characteristics defined in this section are guaranteed within the operating ranges listed in Table 9, unless otherwise specified. Positive currents flow into the respective pin.

Table 11. CURRENT CONSUMPTION

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
iV _{BAT-NORM}	Current consumption from V _{BAT}	normal-power modes		0.65	1	mA

Table 18: Power Supply Monitoring uBDUVV_{BAT} parameter (improvement of operating range).
 Maximum limit lowered from 5.5V to 5.1V.

Table 18. POWER SUPPLY MONITORING PARAMETERS

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$uBDUVV_BAT$	V _{BAT} under-voltage threshold		4		5.5	V

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The improvement of this parameter is also reflected in Table 9. (operating ranges) by adding note 5.

Table 9. OPERATING RANGES

Symbol	Parameter	Min	Max	Units
uV _{BAT} -OP	Battery voltage power supply (Note 5)	5.5	50	V
uV _{CC-OP}	Supply voltage 5 V	4.75	5.25	V
uV _{IO-OP}	OP Supply voltage for V _{IO} voltage level adaptation		5.25	V
uWAKE _{OP}	DC voltage at WAKE pin	0	V _{BAT}	V
uDigIO _{OP}	DC voltage at digital pins (EN, TXD, TXEN, RXD, RXEN, BGE, STBN, ERRN)	0	V _{IO}	V
uBM _{OP}	DC voltage at pin BM	-50	50	V
uBP _{OP}			50	V
uINH _{OP}			V _{BAT}	V
T _{AMB}	Ambient temperature (Note 6)		125	°C
T _{J OP}	T _{J OP} Junction temperature		150	°C

^{5.} Full functionality is guaranteed from 5.1 V. See also parameter uBDUVV_{BAT}.

6. The specified range corresponds to TAMB_class1

<u>List of affected General Parts</u>:

NCV7381DP0R2G NCV7381DP0G

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