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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION**

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**13-Feb-2009**

**SUBJECT: ON Semiconductor Final Product/Process Change Notification #16211**

**TITLE: NCP5359 Electrical Characteristics Revision History**

**PROPOSED FIRST SHIP DATE: 14-May-2009**

**AFFECTED CHANGE CATEGORY(S): Datasheet Update**

**AFFECTED PRODUCT DIVISION(S): Computing and Consumer Group (CCG)**

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or David Chu <[david.chu@onsemi.com](mailto:david.chu@onsemi.com)>

**SAMPLES:** Contact your local ON Semiconductor Sales Office

**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact your local ON Semiconductor Sales Office.

**DESCRIPTION AND PURPOSE:**

The purpose of this PCN is to notify customers of updates to electrical parameter changes originally disclosed in Product Bulletin 16136 and Update Notification 16149.

The table below describes all changes to the electrical characteristics of the NCP5359 with datasheet revision history.


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**ELECTRICAL CHARACTERISTIC SUMMARY:**

Parameter	Old Min Rev. 0 Datasheet	Old Max Rev. 0 Datasheet	Old Min Rev. 1 Datasheet	Old Max Rev. 1 Datasheet	Old Min Rev. 2 Datasheet	Old Max Rev. 2 Datasheet	New Min Rev. 3 Datasheet	New Max Rev. 3 Datasheet	Additional Information
DRVH Comparator Drop Threshold (VthDRVH)	2.0V		2.2V		2.2V		2.2V		Revised from PB16136 and UN16149
DRVL Comparator Rise Threshold (VthDRVL)		1.0V		0.8V		0.8V		0.8V	Included in PB16136 and UN16149
Propagation Delay (tpdhDRVH)	10ns	30ns	10ns	35ns	10ns	35ns	10ns	35ns	Included in PB16136 and UN16149
Propagation Delay (tpdlDRVH)	10ns	30ns	8ns	30ns	8ns	30ns	8ns	30ns	Included in PB16136 and UN16149
Propagation Delay (tpdhDRVL)	10ns	30ns	10ns	35ns	10ns	35ns	10ns	35ns	Included in PB16136 and UN16149
Propagation Delay (tpdlDRVL)	10ns	30ns	8ns	30ns	8ns	30ns	8ns	30ns	Included in PB16136 and UN16149
BST Quiescent Supply Current (Ibst1_normal) & (Ibst2_normal)		1.5mA		1.8mA		1.8mA		1.8mA	
BST Absolute Max Rating		30V wrt GND		35V wrt GND		35V wrt GND		35V wrt GND	
BST Absolute Max Rating		35V <50ns wrt GND		40V <50ns wrt GND		40V <50ns wrt GND		40V <50ns wrt GND	
SW Absolute Min Rating	-10V (200ns)		-10V (200ns)		-5V (200ns)		-10V (200ns)*		
DRVL Absolute Min Rating	-2V (200ns)		-5V (200ns)		-5V (200ns)		-5V (200ns)		

\* note in datasheet states SW absolute minimum voltage rating is -5V (200ns) when system is in PSI mode.



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**AFFECTED DEVICE LIST**

NCP5359DR2G  
NCP5359MNR2G