ON Semiconductor

PRODUCT BULLETIN
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25 Jun 2008

SUBJECT: ON Semiconductor Product Bulletin # PB16129

TITLE: Notification of Recommended Operating Conditions and Undervoltage Lockout (UVLO) Limit change

PROPOSED FIRST SHIP DATE: 25 Jun 2008

AFFECTED PRODUCT DIVISION: Computing Products Group

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor sales office or Evonne Reyes-Roberts at
Evonne.reyes@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:

Due to recent process change, the Recommended Operating Conditions and the UVLO lower limits have changed.   These changes are considered improvements and should not have an effect on the customer's application. The new ratings and limits are shown in Table 1 and 2 below.

Table 1. Recommended Operating Conditions

Pin Symbol	Pin Name	Vmax	Vmin
BST	Bootstrap Supply Voltage Input	35 V wrt/PGND 40 V < 50 ns wrt/PGND 15 V wrt/SW	−0.3 V wrt/SW
SW	Switching Node (Bootstrap Supply Return)	35 V 40 V < 50 ns	−5.0 V −10 V < 200 ns
DRVH	High-Side Driver Output	BST + 0.3 V	−0.3 V wrt/SW −2.0 V < 200 ns wrt/SW
DRVL	Low-Side Driver Output	VCC + 0.3 V	−0.3 V DC −5.0 V < 200 ns
IN	DRVH and DRVL Control Input	6.5 V	−0.3 V
OD	Output Disable	6.5 V	−0.3 V

Table 2. Undervoltage Lockout

	Minimum	Typical	Maximum
UVLO Startup	3.9V	4.3V	4.5V
UVLO Shutdown	3.7V	4.1V	4.3V

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AFFECTED DEVICE LIST

PART

ADP3120AJRZ
ADP3120AJCPZ
ADP3110AKRZ
ADP3110AKCPZ