



PRODUCT BULLETIN
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01-Jun-2006

SUBJECT: ON Semiconductor Product Bulletin #15570

TITLE: Operating Range Change for the NB100LVEP91, NB100LVEP17 & NB100LVEP56 Devices.

EFFECTIVE DATE: 01-Jun-2006

AFFECTED PRODUCT DIVISION: Analog Power Management Products

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor sales office or Gregg Hooker <FFMGNR@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 correcting its Datasheets for the Operating Range Specification for the NB100LVEP91, NB100LVEP17, and the NB100LVEP56 devices. Currently these devices include an operating range up to +/- 5.5V for either Vcc or Vee. The Datasheets will be modified to remove the +/-5.5V range. ON Semiconductor is recommending to customers that they use the MC100EP17 and the MC100EP56 for applications requiring the 5V operating range at this time. ON Semiconductor is targeting the release of the new MC100EP91 in the Q3-2006 timeframe for applications requiring the 5V operating range.

The NB100LVEP91 Datasheet Operating Range limits are defined

Existing Operating Range: Vcc = 2.375V to 3.8V; Vee = -2.375 to -5.5V; GND=0V

Corrected Operating Range: Vcc = 2.375V to 3.8V; Vee = -2.375 to -3.8V; GND=0V

The NB100LVEP17 Datasheet Operating Range limits are defined

Existing PECL Operating Range: Vcc = 2.375V to 5.5V with Vee = 0V

Corrected PECL Operating Range: Vcc = 2.375V to 3.8V with Vee = 0V

Existing NECL Operating Range: Vcc = 0V with Vee = -2.375V to -5.5V

Corrected NECL Operating Range: Vcc = 0V with Vee = -2.375V to -3.8V

The NB100LVEP56 Datasheet Operating Range limits are defined

Existing PECL Operating Range: Vcc = 2.375V to 5.5V with Vee = 0V

Corrected PECL Operating Range: Vcc = 2.375V to 3.8V with Vee = 0V

Existing NECL Operating Range: Vcc = 0V with Vee = -2.375V to -5.5V

Corrected NECL Operating Range: Vcc = 0V with Vee = -2.375V to -3.8V



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AFFECTED DEVICE LIST

PART

NB100LVEP91DW
NB100LVEP91DWR2
NB100LVEP91DWG
NB100LVEP91DWR2G
NB100LVEP91MN
NB100LVEP91MNR2
NB100LVEP91MNG
NB100LVEP91MNR2G
NB100LVEP17DT
NB100LVEP17DTR2
NB100LVEP17DTG
NB100LVEP17DTR2G
NB100LVEP17MN
NB100LVEP17MNR2
NB100LVEP17MNG
NB100LVEP17MNR2G
NB100LVEP56DT
NB100LVEP56DTR2
NB100LVEP56DTG
NB100LVEP56DTR2G
NB100LVEP56MN
NB100LVEP56MNR2
NB100LVEP56MNG
NB100LVEP56MNR2G