



PRODUCT BULLETIN
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02 Oct 2008

SUBJECT: ON Semiconductor Product Bulletin #16154

TITLE: Revision of Device specifications for NBSG16VS and NBSG53A

PROPOSED FIRST SHIP DATE: 02 Oct 2008

AFFECTED PRODUCT DIVISION: High Frequency Products

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Clarence Rebello <C.Rebello@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

NOTIFICATION TYPE:

Product Bulletin (PB)

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:

ON Semi is revising the NBSG16VS and NBSG53A Device specifications after re-characterization based on improved Test Equipment and Measurements. This change is effective immediately upon issuance of this PB for the devices listed. Reliability will continue to meet or exceed ON Semiconductor standards. ON Semiconductor recommends that customers evaluate units in each associated application to ensure there are no unexpected electrical incompatibilities exist.

Specification Changes are as Follows:

NBSG16VS:

Change VOL NECL (and Equivalent) at $-3.0V < VEE < 2.375V$, Max Swing, $-40\text{ C to }-1705$ to -1140 (was -1855 to -1290) mV.

Change Minimum Output Amplitude to at $-3.0V < VEE < 2.375V$, $-40\text{ C to }80$ (was 100) mV.

NBSG53A:

Change t_{PLH}/t_{PHL} SEL to Q/QB Lower Limit to 100 (ranged from 155 to 165) ps.



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AFFECTED DEVICE LIST

NBSG16VSBA
NBSG16VSBAR2
NBSG16VSBAHTBG
NBSG16VSMN
NBSG16VSMNR2
NBSG16VSMNG
NBSG16VSMNR2G
NBSG16VSMNHTBG
NBSG53ABA
NBSG53ABAR2
NBSG53ABAHTBG
NBSG53AMN
NBSG53AMNR2
NBSG53AMNG
NBSG53AMNR2G
NBSG53AMNHTBG