

Release Note for MicroRB-10020-MLP-TR(1) Lot No. EE5823xxHlx



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Parts Tested

- MicroRB-10020-MLP-TR
- MicroRB-10020-MLP-TR1

Lot no:

- E582314HIA
- E582314HIB
- E582315HIC
- E582316HIH
- E582316HIZ
- E582317HIA
- E582318HIA
- E582318HIL
- E582319HIF
- E582320HIA
- E582320HIB
- E582321HIC

Test Summary

The following parameters are specific to the above-mentioned lots. All other performance parameters for this lot can be found in the product datasheet.

Table 1. LOT SPECIFIC PARAMETERS

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Breakdown Voltage (Note 1)	Vbr2	21°C	23.3	23.7	24.5	V

1. Vbr2 is defined as the value of the 0 intercept of a straight line fit to a plot of $\sqrt{I}$ vs V, where I is measured dark current and V is applied reverse bias voltage and the part is in Geiger mode. (Measured on packaged parts.)

APPLICATION NOTE

Temperature Dependence of Breakdown Voltage

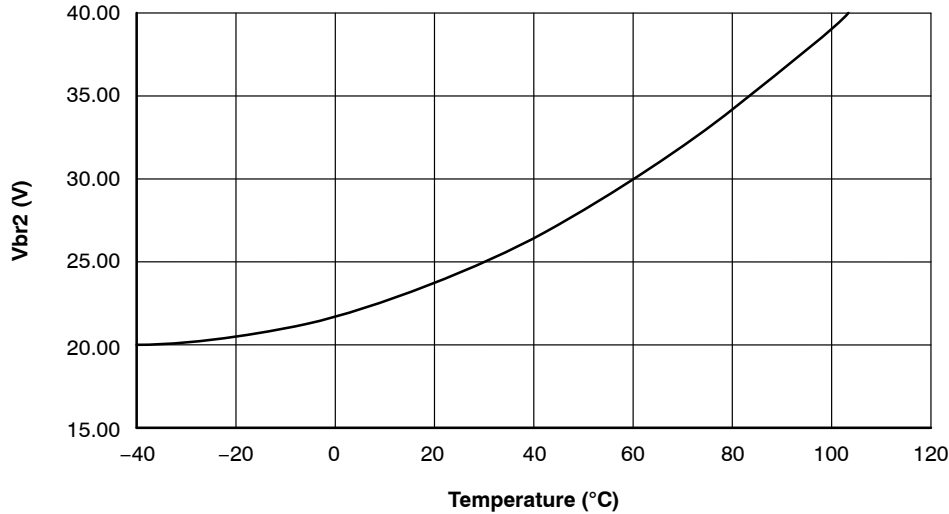


Figure 1. Temperature Dependence of Vbr2

The value of Vbr2 as a function of temperature is plotted in Figure 1 and can be approximated by the equation:

$$V_{br2} = a \cdot T^2 + b \cdot T + c \quad (\text{eq. 1})$$

where T = temperature in °C and fit parameters are given in Table 2.

Datasheet

The datasheet for this device is available at:

<https://www.onsemi.com/pub/Collateral/MICROB-SERIES-D.PDF>

Table 2. FIT PARAMETERS FOR Vbr2 T)

a	9.17E-04
b	8.1E-02
c	21.8

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