



## Release Note for MICRORB-10035-MLP Lot No. N218161042 & Lot No. N218161032

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### Parts Tested

- MICRORB-10035-MLP Lot no. N218161042
- MICRORB-10035-MLP Lot no. N218161032

### APPLICATION NOTE

### Test Summary

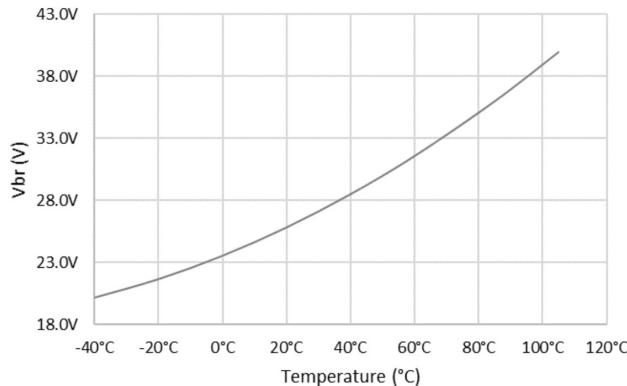
The following parameters are specific to the above-mentioned lot and differ from those specified in the product datasheet. All other performance parameters for this lot can be found in the product datasheet.

**Table 1. Lot Specific Parameters**

Parameter	Condition	Min	Typ	Max	Unit
Breakdown voltage (Vbr1)*	21°C	25.91	26.41	26.91	V
Ovvoltage (Vov)			10	15	V

\*Vbr1 is defined as the bias voltage at which dark current = 10 nA. (Measured at wafer level.)

### Temperature Dependence of Breakdown Voltage



**Figure 1. Temperature Dependence of Vbr2**

The value of  $V_{br2}^{\dagger}$  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  $^{\circ}\text{C}$  and fit parameters are given in Table 2.

**Table 2. Fit Parameters for  $V_{br2}(T)$**

<b>a</b>	4.97E-04
<b>b</b>	1.04E-01
<b>c</b>	23.54

<sup>†</sup> $V_{br2}$  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.)

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