

BRIGHT LED ELECTRONICS CORP.

●Device Number : BPD-BQB331

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●Absolute Maximum Rating($T_a=25^{\circ}\text{C}$)

Version:1.0

Item	Symbol	Rating	Unit
Power Dissipation	Pd	100	mW
Operating Temperature	Topr	-45 ~ +85	$^{\circ}\text{C}$
Storage Temperature	Tstg	-45 ~ +100	$^{\circ}\text{C}$
Soldering Temperature(*1)	Tsol	250	$^{\circ}\text{C}$

(*1)、For 5 Sec

●Electrical And Optical Characteristics($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Break Down Voltage	V_{BR}	$I_r=100\mu\text{A}, E_e=0\text{mW}/\text{cm}^2$	30	—	—	V
Reverse Dark Current	I_d	$V_r=10\text{V}, E_e=0\text{mW}/\text{cm}^2$	—	—	30	nA
Reverse Light Current	I_L	$V_r=5\text{V}, E_e=5\text{mW}/\text{cm}^2$	—	80	—	μA
Open Circuit Voltage	V_{oc}	$E_e=5\text{mW}/\text{cm}^2$	—	420	—	mV
Rise Time	T_r	$V_r=10\text{V}, R_L=1\text{K}\Omega$	—	10	—	ns
Fall Time	T_f		—	10	—	ns
Total Capacitance	C_t	$V_r=3\text{V}, F=1\text{MHz}, E_e=0\text{mW}/\text{cm}^2$	—	25	—	pF

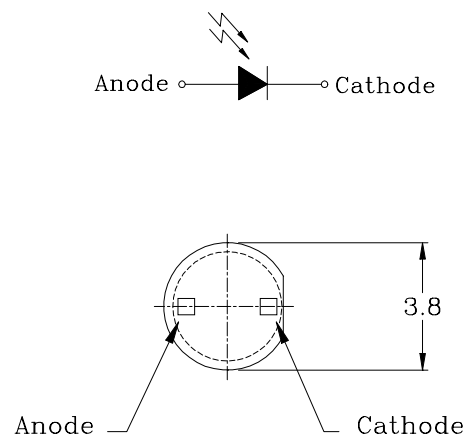
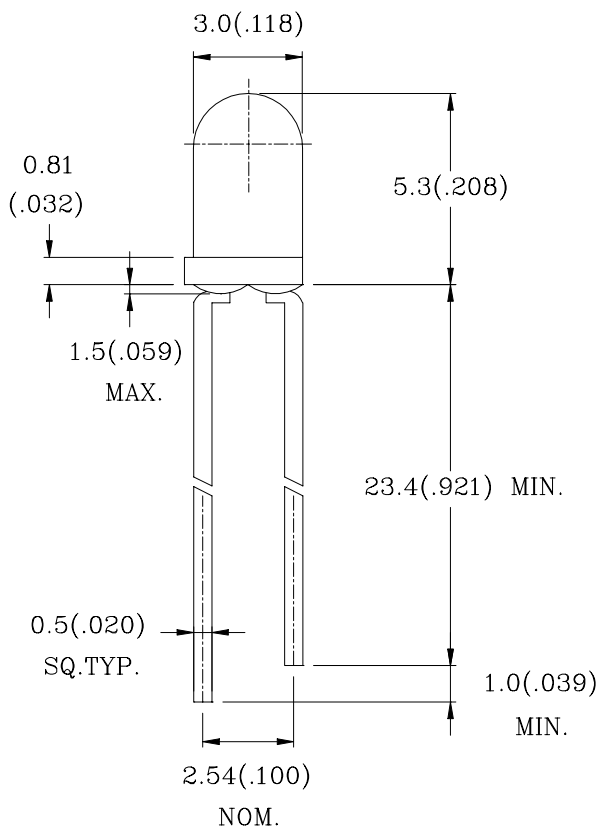
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●Dimensions

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Notes:

- 1、All dimensions are in millimeters(inches).
- 2、Tolerance is $\pm 0.25\text{mm}(0.01'')$ unless otherwise specified.
- 3、Lead spacing is measured where the leads emerge from the package.
- 4、Specifications are subject to change without notice.
- 5、Lens appearance: water clear.

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- Device Number: BPD-BQB331
- Electrical And Optical Curves (Ta=25°C)

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FIG.1 Relative Spectral Sensitivity Vs. Wavelength

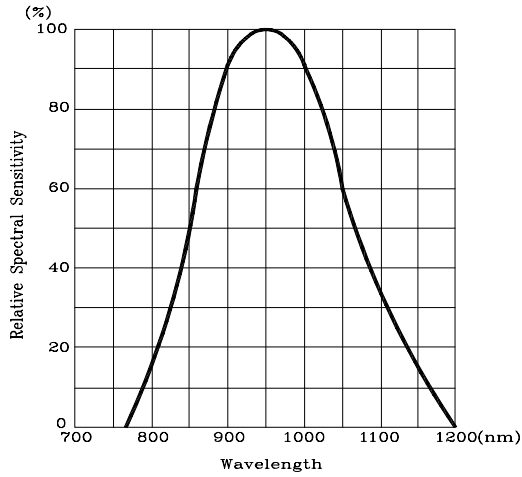


FIG.2 Capacitance Vs. Reverse Voltage
F=1MHz, Ee=0mW/cm²

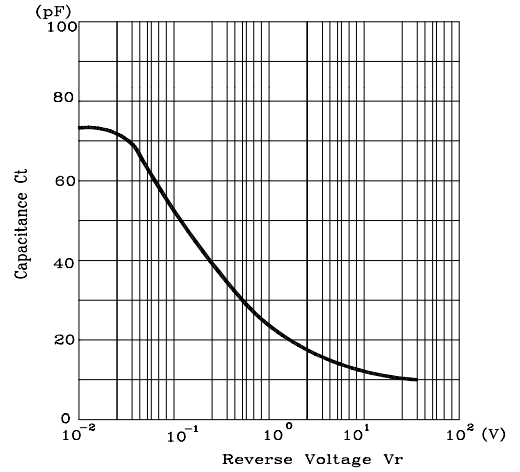


FIG.3 Dark Current Vs. Reverse Voltage
Ta=25°C; Ee=0mW/cm²

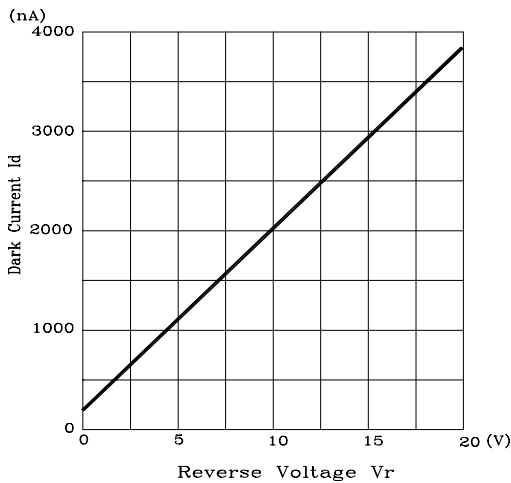


FIG.4 Total Power Dissipation Vs. Ambient Temperature

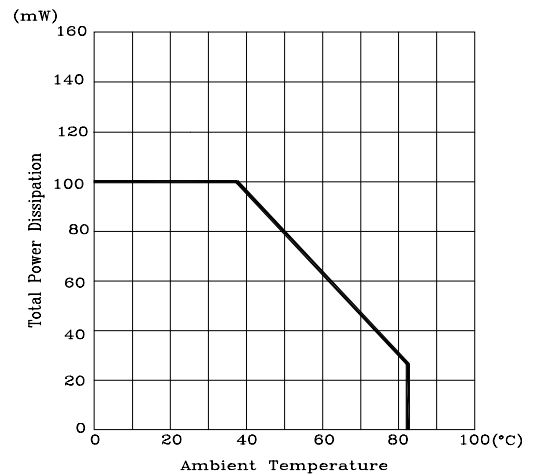


Fig.5 Photocurrent Vs. Ambient Temperature

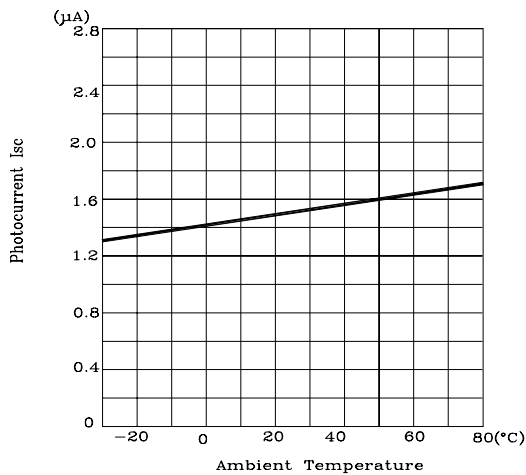


FIG.6 Dark Current Vs. Ambient Temperature

