

# BRIGHT LED ELECTRONICS CORP.

●Device Number : BPD-BQB331

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●Absolute Maximum Rating(Ta=25°C)

Version:1.0

Item	Symbol	Rating	Unit
Power Dissipation	Pd	100	mW
Operating Temperature	Topr	-45 ~ +85	°C
Storage Temperature	Tstg	-45 ~ +100	°C
Soldering Temperature(*1)	Tsol	250	°C

(\*1)、For 5 Sec

●Electrical And Optical Characteristics(Ta=25°C)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Break Down Voltage	V <sub>BR</sub>	I <sub>r</sub> =100μA, E <sub>e</sub> =0mW/cm <sup>2</sup>	30	—	—	V
Reverse Dark Current	I <sub>d</sub>	V <sub>r</sub> =10V, E <sub>e</sub> =0mW/cm <sup>2</sup>	—	—	30	nA
Reverse Light Current	I <sub>L</sub>	V <sub>r</sub> =5V, E <sub>e</sub> =5mW/cm <sup>2</sup>	—	80	—	μA
Open Circuit Voltage	V <sub>oc</sub>	E <sub>e</sub> =5mW/cm <sup>2</sup>	—	420	—	mV
Rise Time	T <sub>r</sub>	V <sub>r</sub> =10V, R <sub>L</sub> =1KΩ	—	10	—	ns
Fall Time	T <sub>f</sub>		—	10	—	ns
Total Capacitance	C <sub>t</sub>	V <sub>r</sub> =3V, F=1MHz, E <sub>e</sub> =0mW/cm <sup>2</sup>	—	25	—	pF

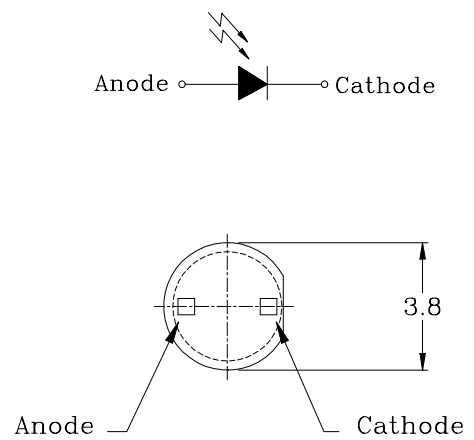
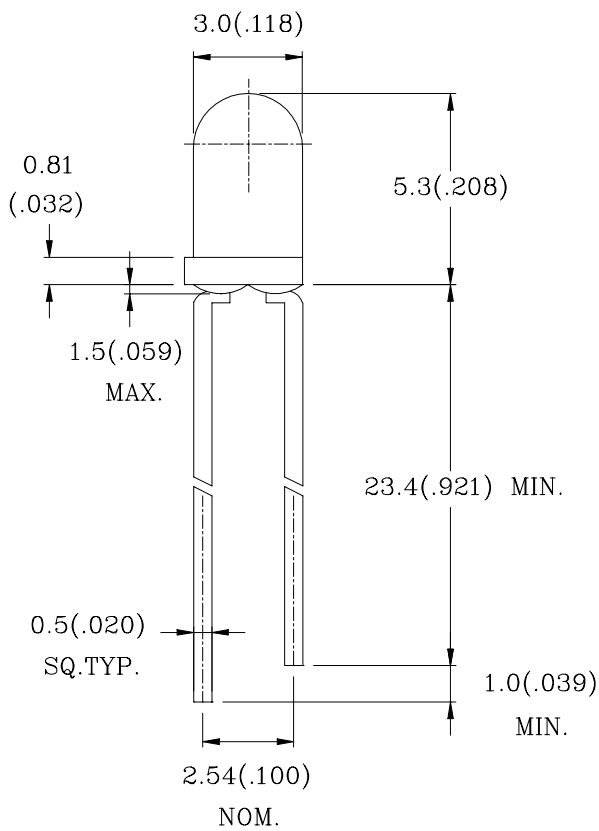
# BRIGHT LED ELECTRONICS CORP.

●Device Number: BPD-BQB331

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●Dimensions

Version: 1.0



## 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.

# BRIGHT LED ELECTRONICS CORP.

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

FIG.1 Relative Spectral Sensitivity Vs. Wavelength

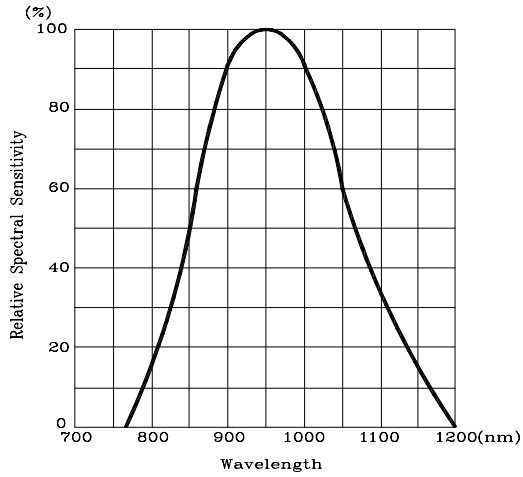


FIG.2 Capacitance Vs. Reverse Voltage  
F=1MHz, Ee=0mW/cm<sup>2</sup>

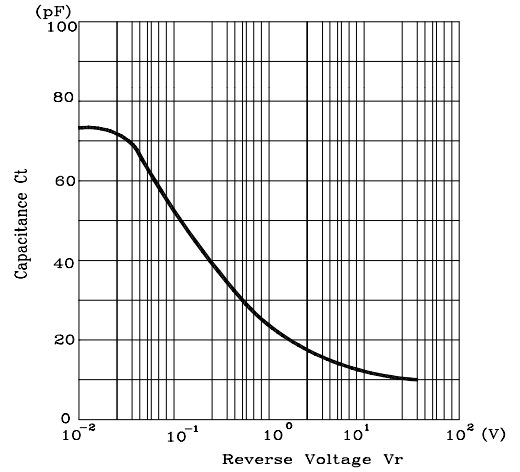


FIG.3 Dark Current Vs. Reverse Voltage  
Ta=25°C; Ee=0mW/cm<sup>2</sup>

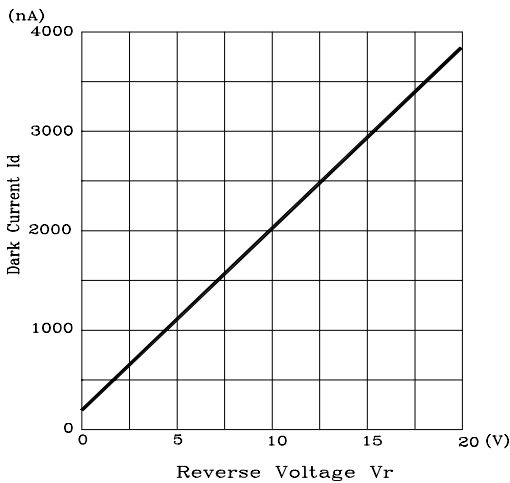


FIG.4 Total Power Dissipation Vs. Ambient Temperature

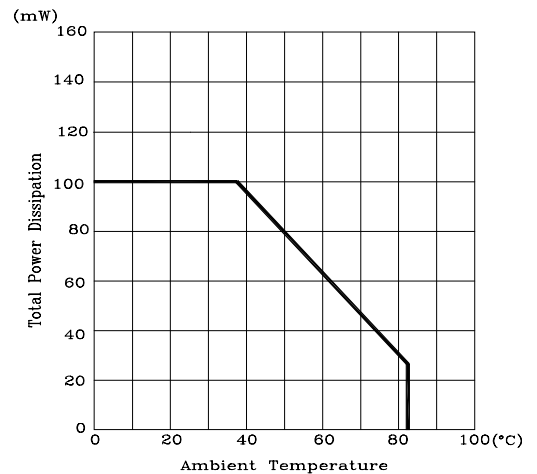


Fig.5 Photocurrent Vs. Ambient Temperature

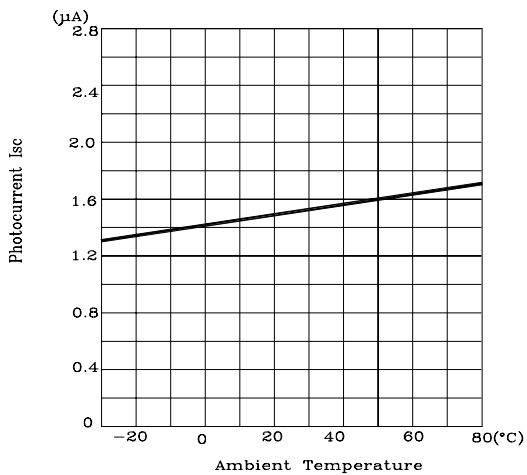


FIG.6 Dark Current Vs. Ambient Temperature

