

BRIGHT LED ELECTRONICS CORP.

●Device Number : BIR-B003J4G

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

Version:1.1

Item	Symbol	Rating	Unit
Power Dissipation	Pd	100	mW
Forward Current	If	100	mA
Peak Forward Current(*1)	Ifp	1.0	A
Operating Temperature	Topr	-45 ~ +85	$^{\circ}\text{C}$
Storage Temperature	Tstg	-45 ~ +100	$^{\circ}\text{C}$
Soldering Temperature(*2)	Tsol	260	$^{\circ}\text{C}$

(*1)、Pulse Width=10 μs ,10%Duty Cycle

(*2)、For 5 Sec

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	Vf	If=50mA	—	1.3	1.8	V
Spectral Line Half-Width	$\Delta\lambda$	If=20mA	—	50	—	nm
Radiant Power	Ee	If=50mA	2.4	9.9	—	mW/cm ²
	Ie	If=50mA	16.5	65.5	—	mW/sr
Viewing Angle	$2\theta 1/2$	If=20mA	—	20	—	deg
Peak Wavelength	λ_p	If=20mA	—	850	—	nm
Rise Time	Tr	Ifp=20mA, Ri=1k Ω	—	20	—	ns
Fall Time	Tf		—	20	—	ns

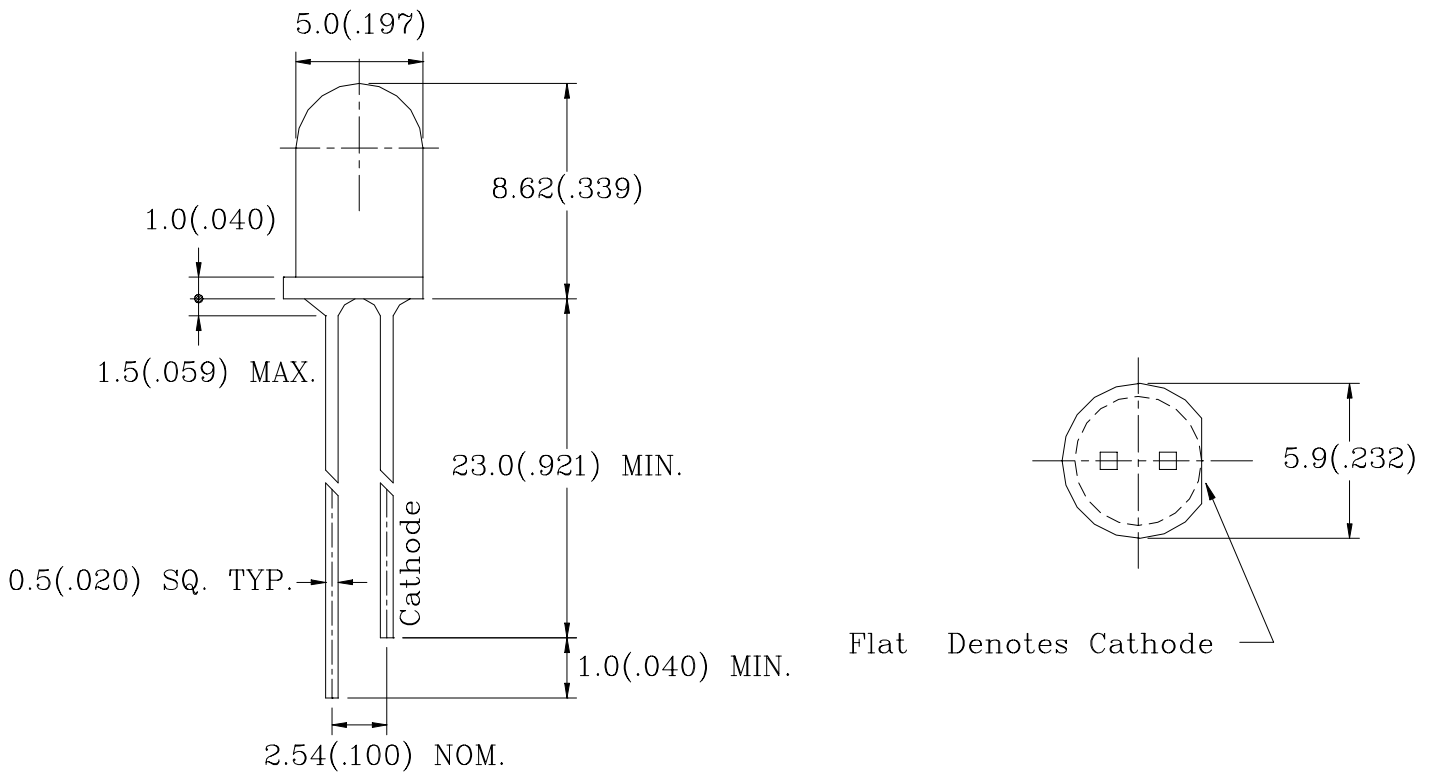
BRIGHT LED ELECTRONICS CORP.

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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.

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

Version: 1.1

FIG.1 Spectral Distribution

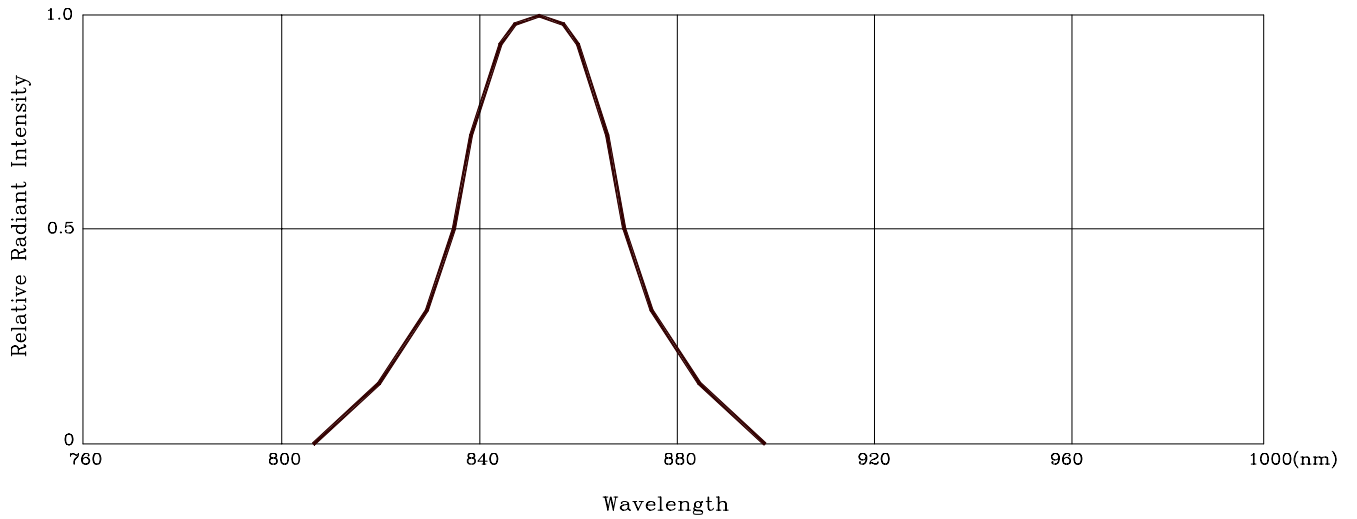


FIG.2 Forward Current Vs. Forward Voltage

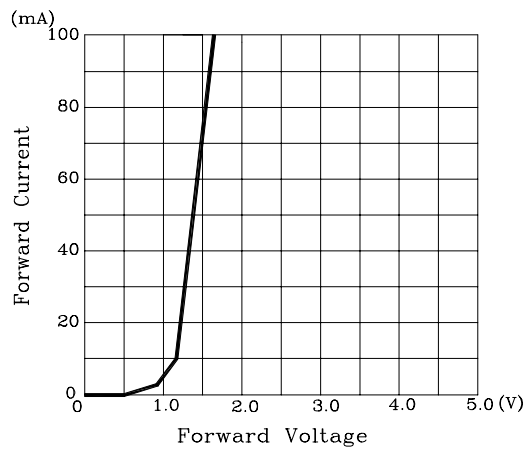


FIG.2 Relative Radiant Intensity Vs. Ambient Temperature

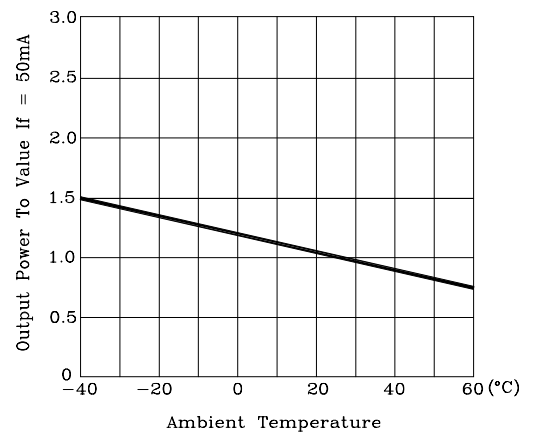


FIG.4 Relative Radiant Vs. Forward Current

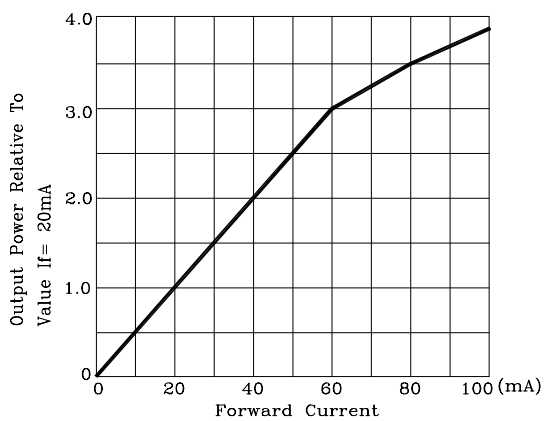


FIG.5 Radiant Diagram

