

BRIGHT LED ELECTRONICS CORP.

●Device Number : BIR-BN0331

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

Version:1.1

Item	Symbol	Rating	Unit
Reverse Voltage	V_r	5	V
Reverse Current	I_r	100	μA
Power Dissipation	P_d	75	mW
Forward Current	I_f	100	mA
Peak Forward Current(*1)	I_{fp}	1.0	A
Operating Temperature	T_{opr}	-45 ~ +85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-45 ~ +100	$^{\circ}\text{C}$
Soldering Temperature(*2)	T_{sol}	250	$^{\circ}\text{C}$

(*1)、Pulse Width= $10\mu\text{s}$,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	V_f	$I_f=50\text{mA}$	—	1.3	1.7	V
Spectral Line Half-Width	$\Delta\lambda$	$I_f=20\text{mA}$	—	50	—	nm
Radiant Power	E_e	$I_f=50\text{mA}$	1.2	2.7	—	mW/cm^2
Viewing Angle	$2\theta_{1/2}$	$I_f=20\text{mA}$	—	20	—	deg
Peak Wavelength	λ_p	$I_f=20\text{mA}$	—	880	—	nm
Rise Time	T_r	$I_{fp}=20\text{mA}, R_i=1\text{k}\Omega$	—	200	—	ns
Fall Time	T_f		—	200	—	ns

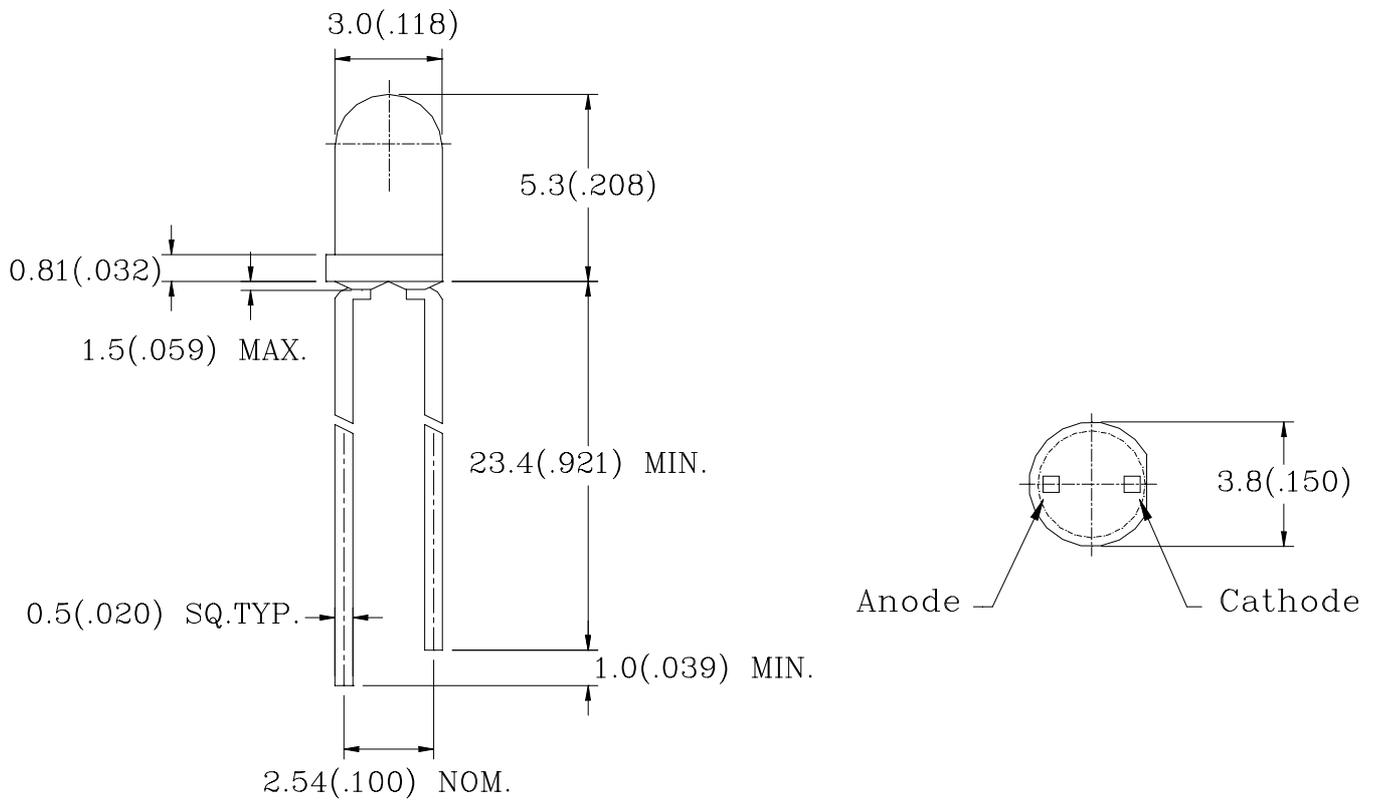
BRIGHT LED ELECTRONICS CORP.

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●Dimensions

Version: 1.1



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

Version: 1.0

FIG.1 Spectral Distribution

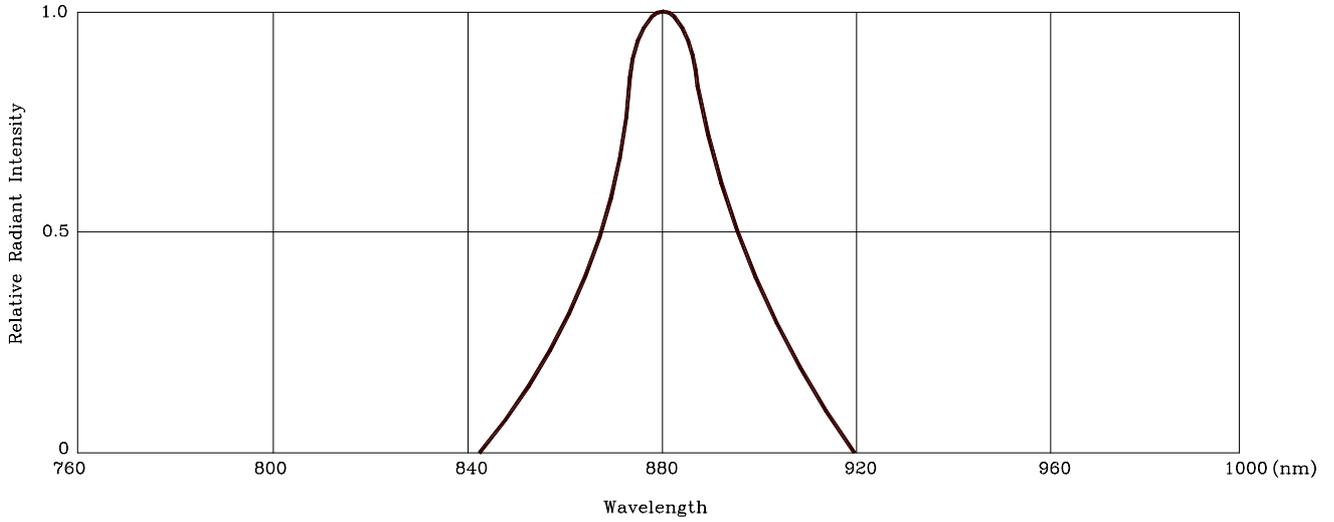


FIG.2 Forward Current Vs. Forward Voltage

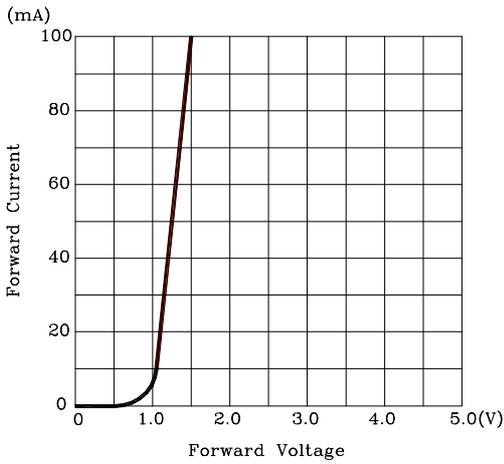


FIG.3 Relative Radiant Intensity Vs. Ambient Temperature

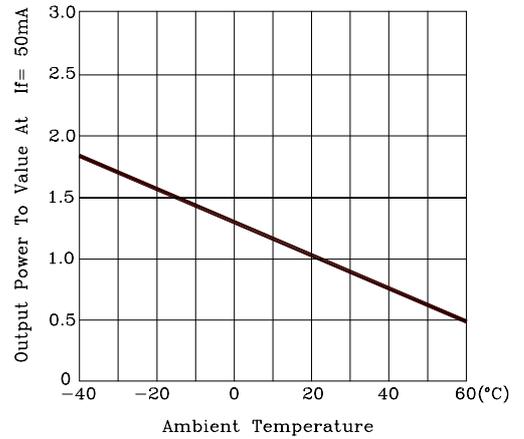


FIG.4 Relative Radiant Intensity Vs. Forward Current

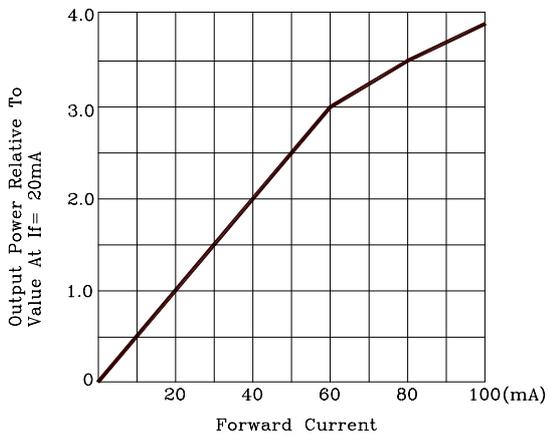
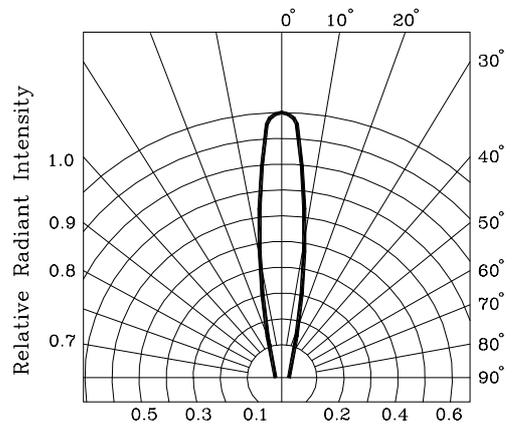


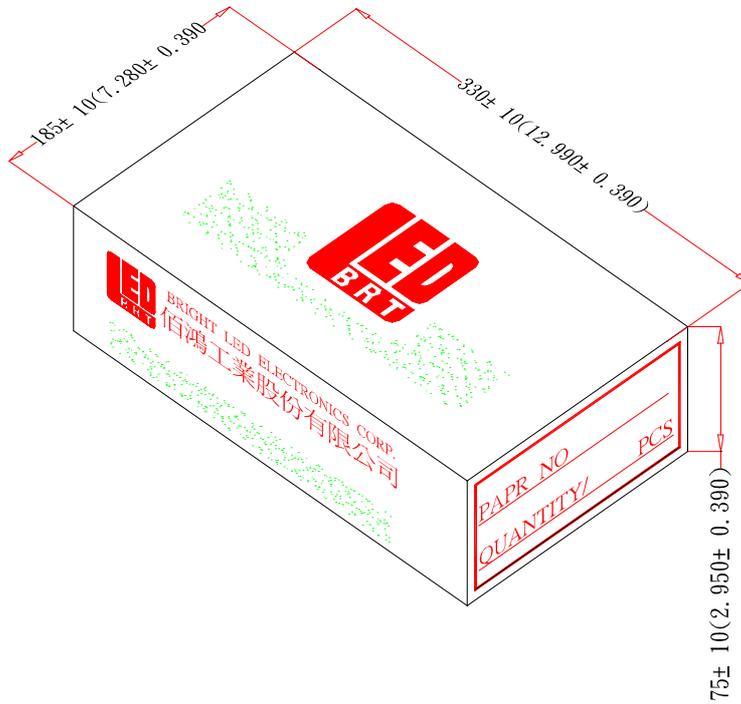
FIG.5 Radiation Diagram



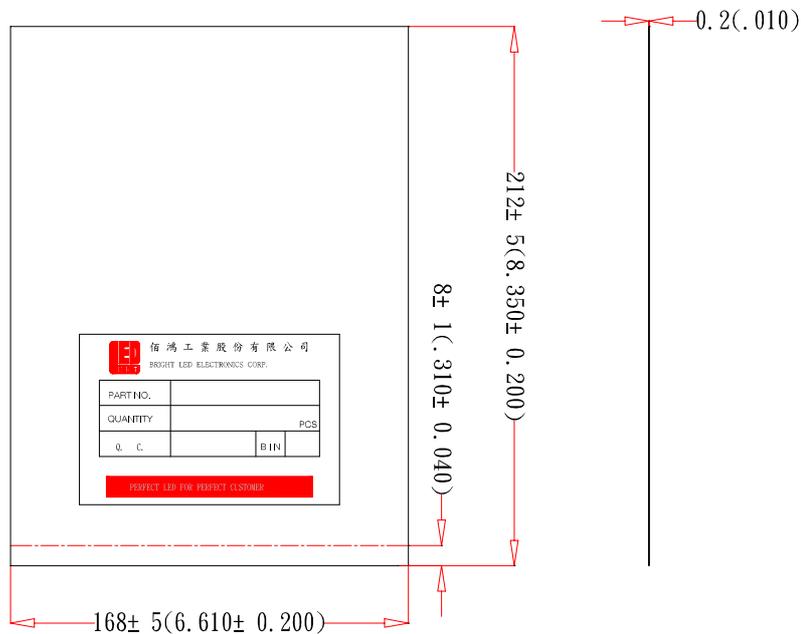
BRIGHT LED ELECTRONICS CORP.

- Device Number: BIR-BN0331
- Packaging Box Dimensions

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●Packaging Bag Dimensions



Notes:

- 1、1Kpcs per bag, 8Kpcs per box.
- 2、All dimensions are in millimeters(inches).
- 3、Specifications are subject to change without notice.