



# BRIGHT LED ELECTRONICS CORP.

●Device Number : BIR-BM13J4G

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●Absolute Maximum Rating(Ta=25°C)

Version:1.0

Item	Symbol	Rating	Unit
Reverse Voltage	V <sub>r</sub>	5	V
Reverse Current	I <sub>r</sub>	100	μA
Power Dissipation	P <sub>d</sub>	100	mW
Forward Current	I <sub>f</sub>	100	mA
Peak Forward Current(*1)	I <sub>fp</sub>	1.0	A
Operating Temperature	T <sub>opr</sub>	-45 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-45 ~ +100	°C
Soldering Temperature(*2)	T <sub>sol</sub>	260	°C

(\*1)、Pulse Width=10μs,10%Duty Cycle

(\*2)、For 5 Sec

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

Parameter	Symbol	Condition	BIN CODE	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>f</sub>	I <sub>f</sub> =50mA	—	—	1.2	1.5	V
Spectral Line Half-Width	△λ	I <sub>f</sub> =20mA	—	—	50	—	nm
Radiant Power	I <sub>e</sub>	I <sub>f</sub> =50mA	13	16.5	—	31.2	mW/sr
			14	23.1	—	43.7	
			15	32.3	—	61.3	
			16	45.3	—	85.8	
Viewing Angle	2θ1/2	I <sub>f</sub> =20mA	—	—	20	—	deg
Peak Wavelength	λ <sub>p</sub>	I <sub>f</sub> =20mA	—	—	940	—	nm
Rise Time	T <sub>r</sub>	I <sub>fp</sub> =20mA, R <sub>i</sub> =1kΩ	—	—	500	—	ns
Fall Time	T <sub>f</sub>			—	500	—	ns

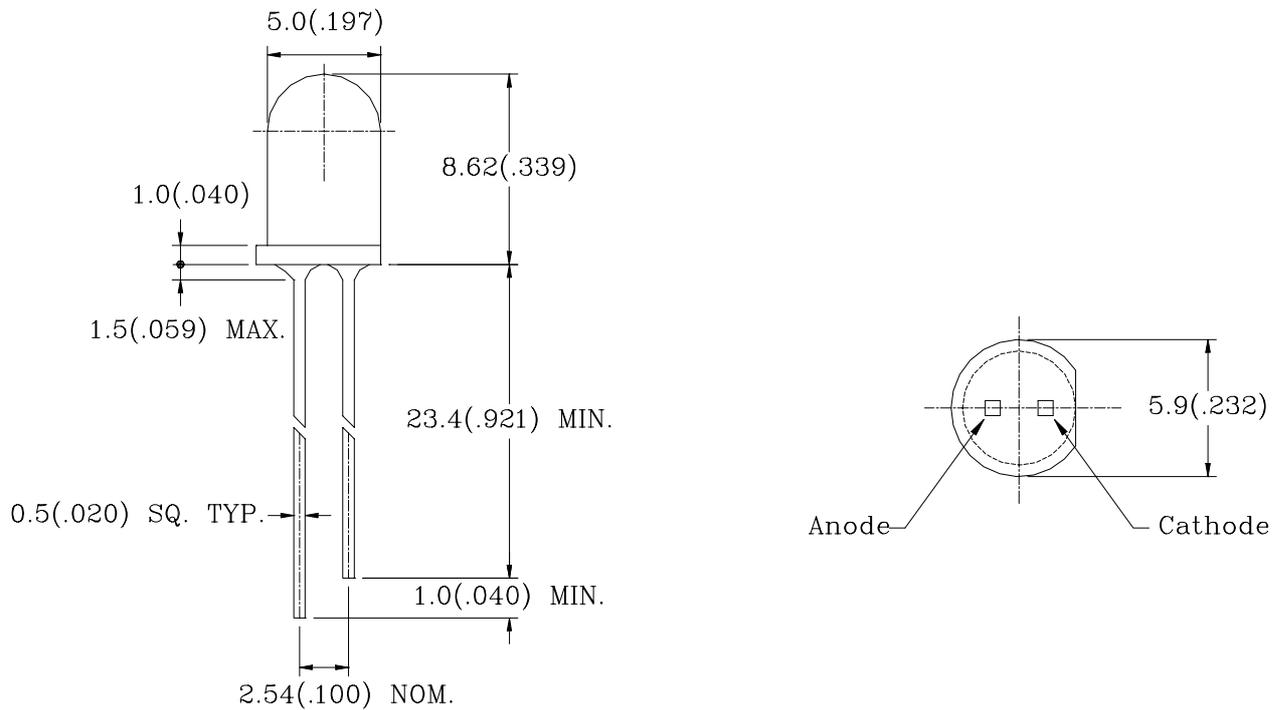
# BRIGHT LED ELECTRONICS CORP.

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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.

# BRIGHT LED ELECTRONICS CORP.

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

Version: 1.0

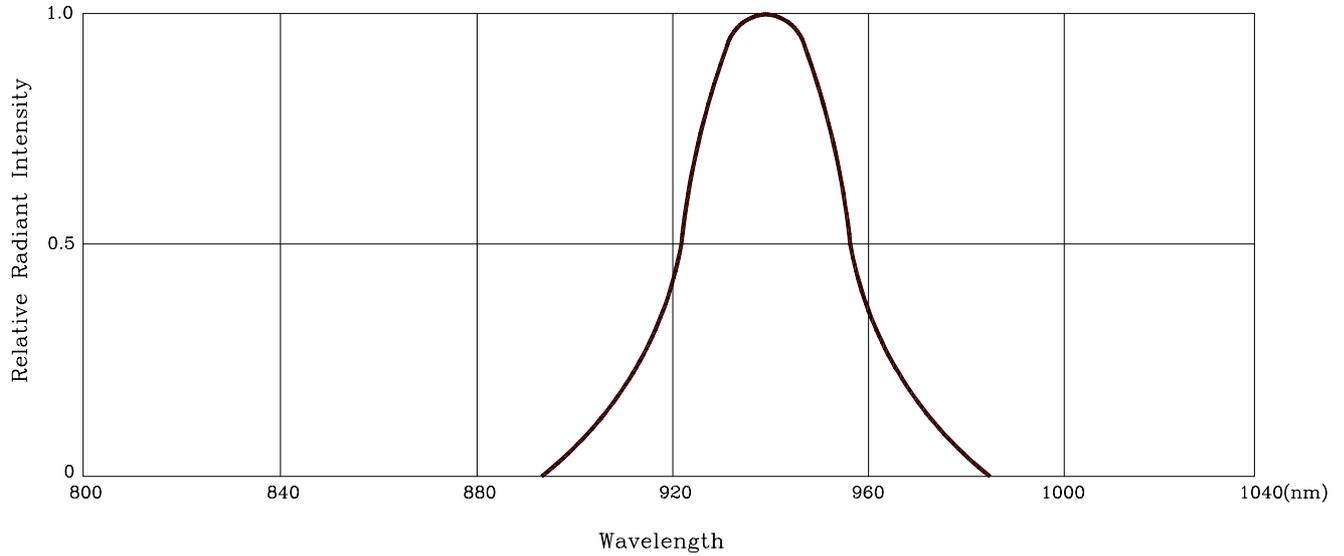


FIG.2 Forward Current Vs. Forward Voltage

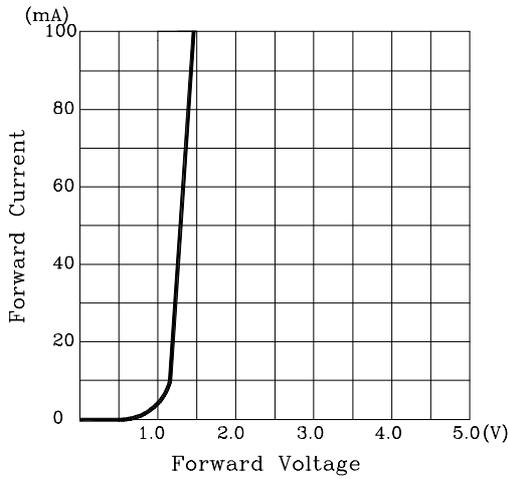


FIG.3 Relative Radiant Intensity Vs. Ambient Temperature

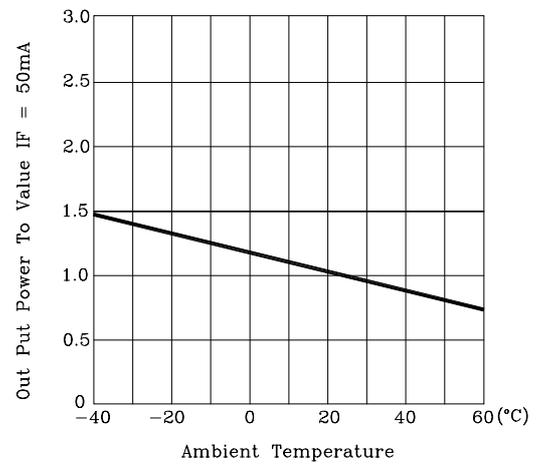


FIG.4 Relative Radiant Vs. Forward Current

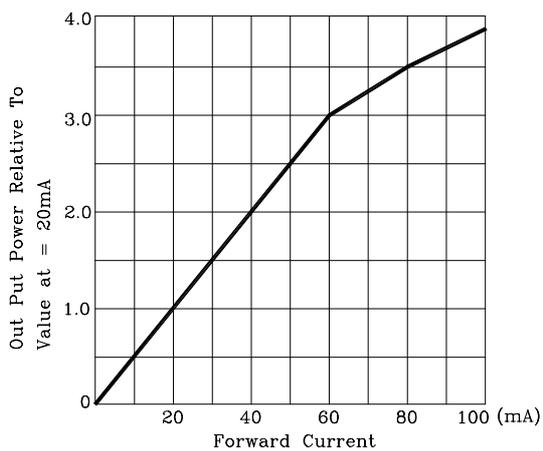


FIG.5 Radiant Diagram

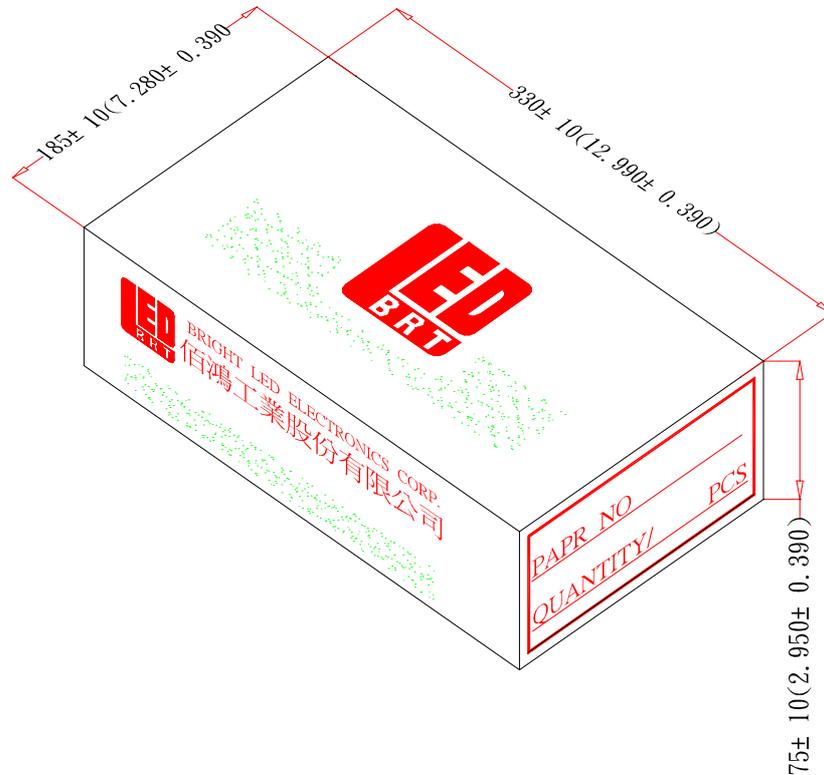
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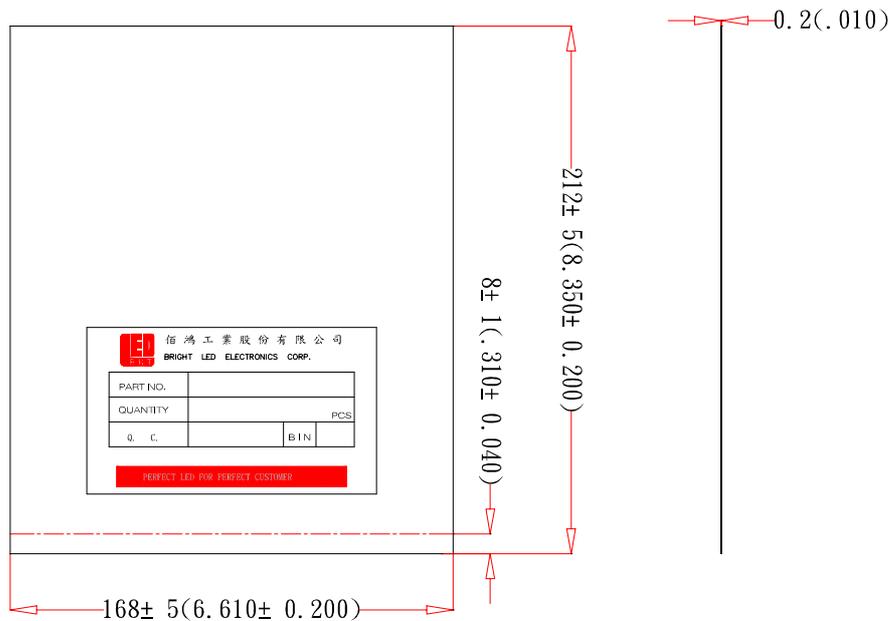
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●Packaging Box Dimensions

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●Packaging Bag Dimensions



Notes:

- 1、500pcs per bag, 5Kpcs per box.
- 2、All dimensions are in millimeters(inches).
- 3、Specifications are subject to change without notice.