

### SIDE-LOOK PACKAGE LIGHT EMITTING DIODE

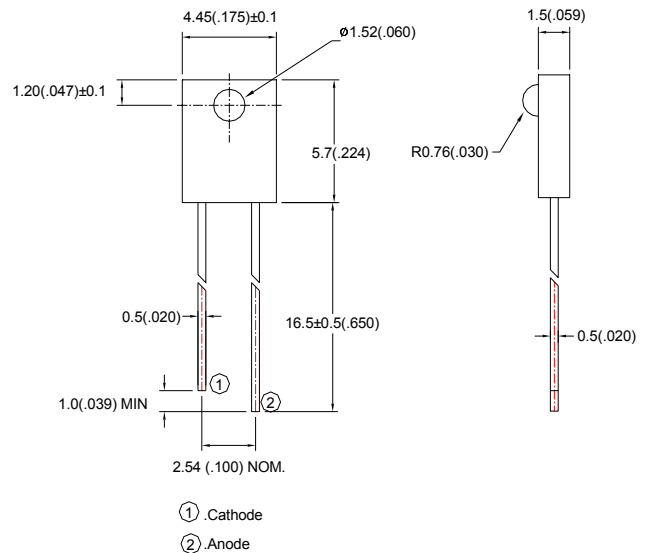
● **Features:**

1. Selected to specific on-line intensity and radiant intensity ranges.
2. Low cost, plastic side looking package
3. Lens Appearance: Water Clear.
4. This product doesn't contain restriction substance, comply ROHS standard

● **Applications:**

1. Mouse
2. Automatic Control System.

● **Package Dimensions:**



**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.

● **Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Continuous Forward Current	I <sub>F</sub>	50	mA
Peak Forward Current <sup>*1</sup>	I <sub>FP</sub>	1.0	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>opr</sub>	-40°C ~ 85°C	-
Storage Temperature	T <sub>stg</sub>	-45°C ~ 160°C	-
Soldering Temperature	T <sub>sol</sub>	260°C (for 5 seconds)	-

<sup>\*1</sup> Condition for I<sub>FP</sub> pulse of 1/10 duty and 0.1 msec width.

### ● Optical- Electrical Characteristics (@ $T_A=25^{\circ}\text{C}$ )

Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	Ee	I <sub>f</sub> =4mA	0.4	0.60	-	mW/cm <sup>2</sup>
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	-	1.2	1.5	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	μA
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =20mA	-	940	-	nm
Spectral Line Half- Width	Δλ	I <sub>F</sub> =20mA	-	50	-	nm
Viewing Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	-	45	-	deg

### ● Typical Optical-Electrical Characteristic Curves

FIG.1 Spectral Distribution

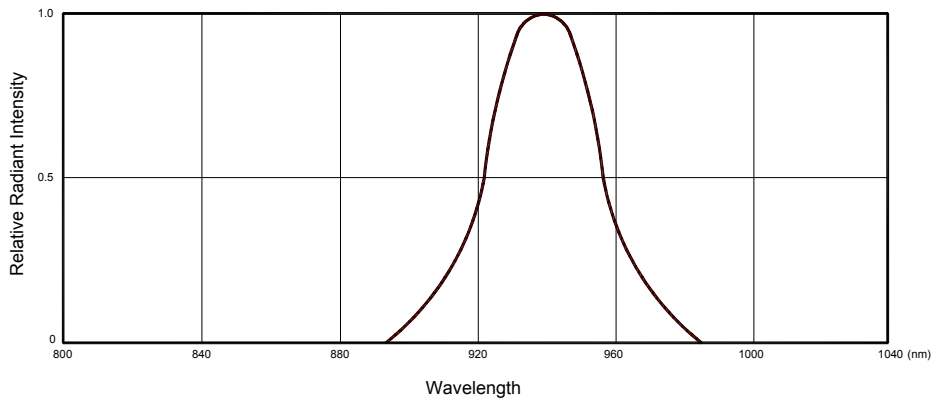


FIG.2 Forward Current Vs. Forward Voltage

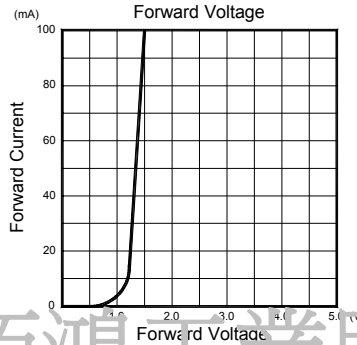


FIG.3 Relative Radiant Intensity Vs. Ambient Temperature

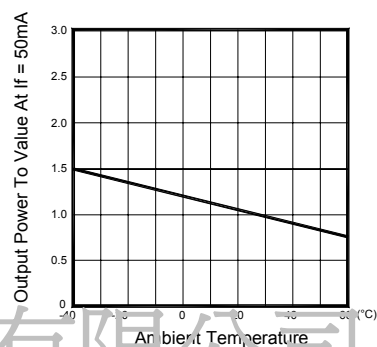


FIG.4 Relative Radiant Intensity Vs. Forward Current

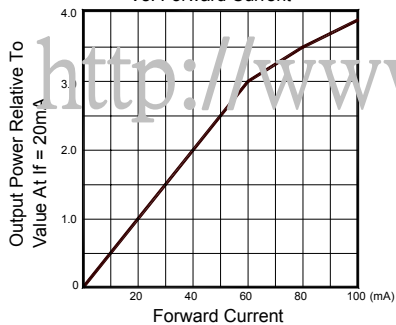
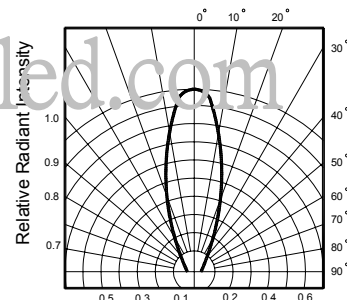
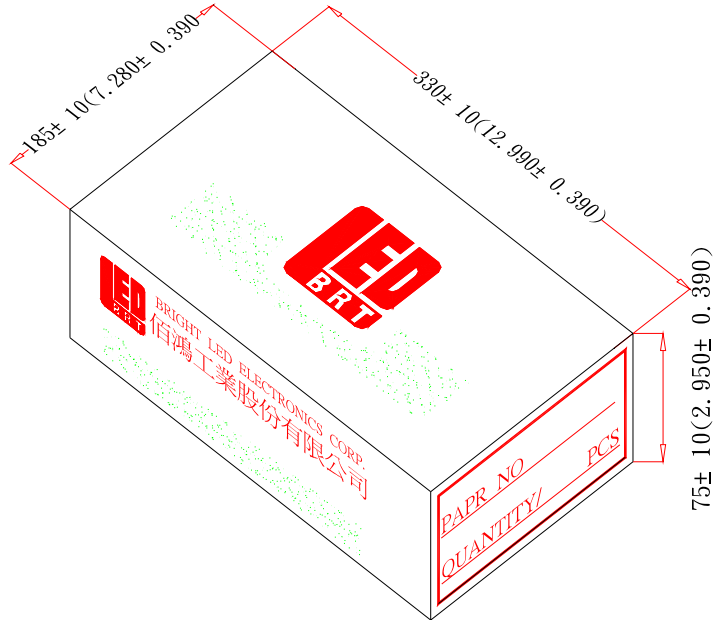


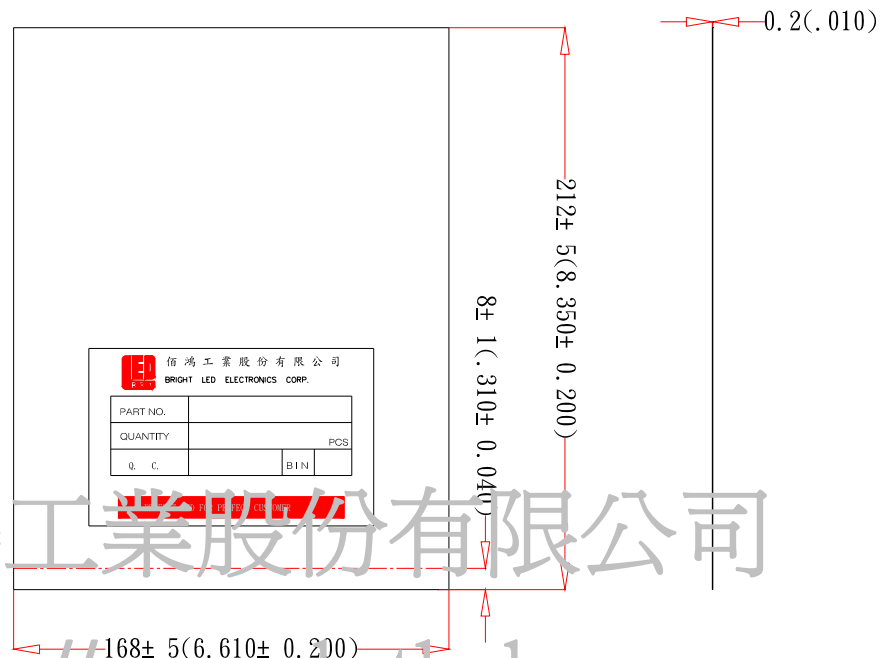
FIG.5 Radiant Diagram



● Tapping and packaging specifications(Units: mm)



● Packaging Bag Dimensions



Notes:

- 1、1000pcs per bag, 8Kpcs per box.
- 2、All dimensions are in millimeters(inches).
- 3、Specifications are subject to change without notice.

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