

## END-LOOK PACKAGE LIGHT EMITTING DIODE

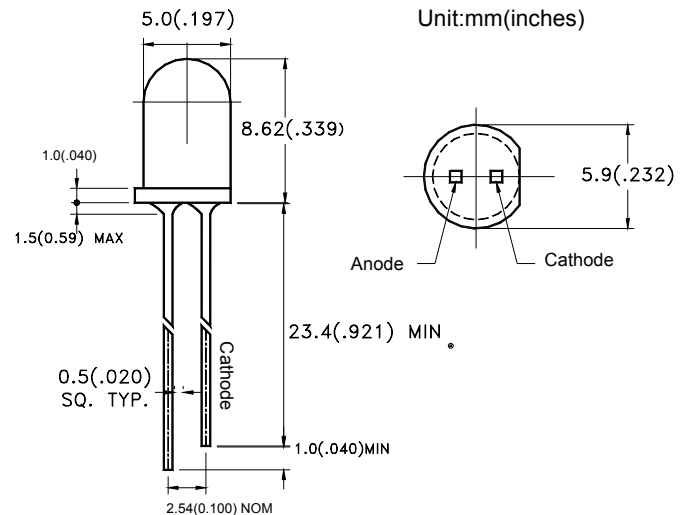
### ● Features:

1. High radiant power and high radiant intensity.
2. Standard T-1 3/4(5mm)package.
3. Peak wavelength  $\lambda_p=940\text{nm}$ .
4. Good spectral matching to si-photodetector.
5. Radiant angle:  $40^\circ$
6. Lens Appearance: Water Clear.
7. This product doesn't contain restriction substance, comply ROHS standard

### ● Applications:

1. Remote Control.
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( $T_a=25^\circ\text{C}$ )

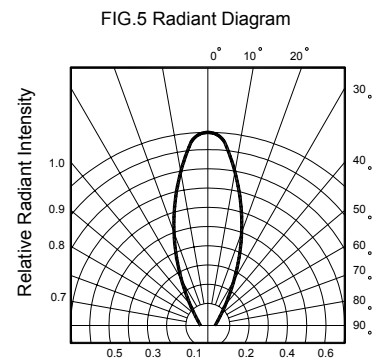
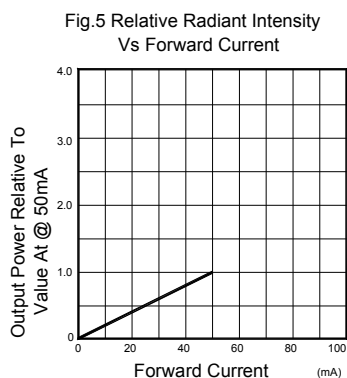
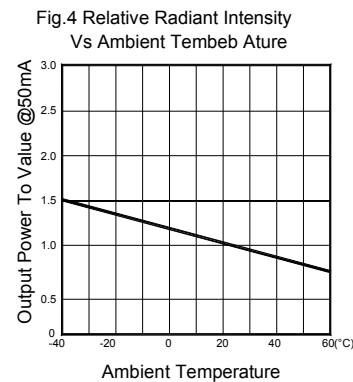
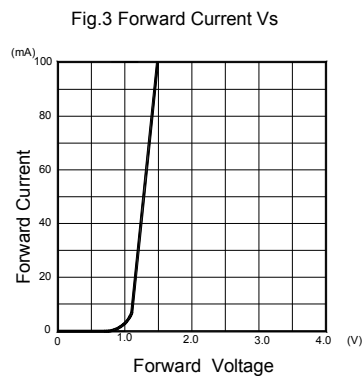
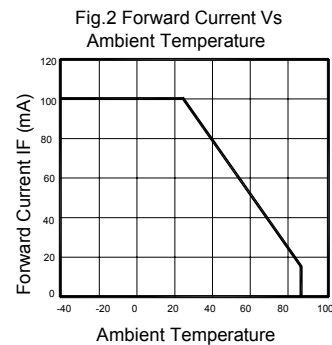
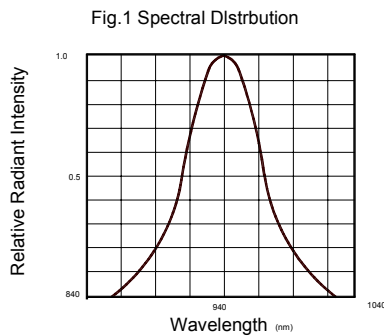
Parameter	Symbol	Rating	Unit
Power Dissipation	$P_d$	100	mW
Continuous Forward Current	$I_F$	100	mA
Peak Forward Current <sup>*1</sup>	$I_{FP}$	1.0	A
Reverse Voltage	$V_R$	5	V
Operating Temperature	$T_{opr}$	$-45^\circ\text{C} \sim 85^\circ\text{C}$	-
Storage Temperature	$T_{stg}$	$-45^\circ\text{C} \sim 100^\circ\text{C}$	-
Soldering Temperature	$T_{sol}$	$260^\circ\text{C}$ (for 5 seconds)	-

<sup>\*1</sup> Condition for is  $I_{FP}$  pulse of 1/10 duty and 0.1 msec width.

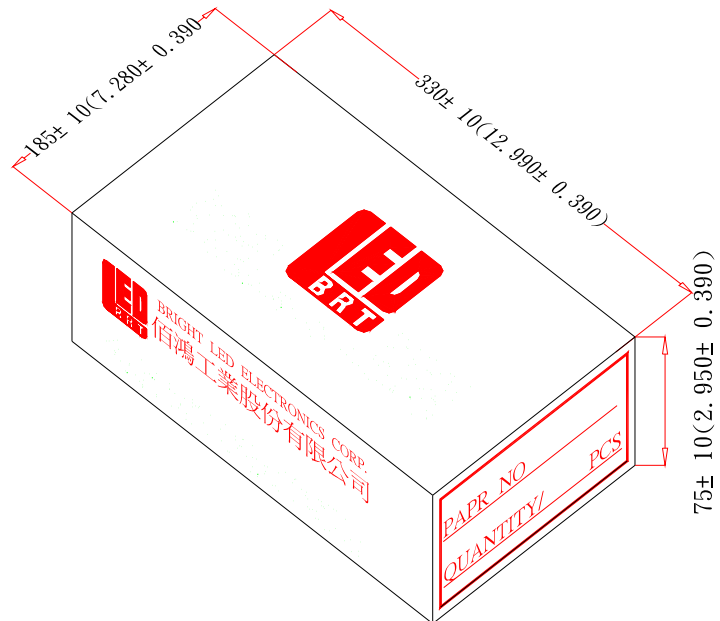
### ● Optical- Electrical Characteristics (@T<sub>A</sub>=25°C)

Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	I <sub>e</sub>	I <sub>F</sub> =50mA	11.78	23.8	-	mW/sr
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =50mA	-	1.25	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	-	40	-	deg

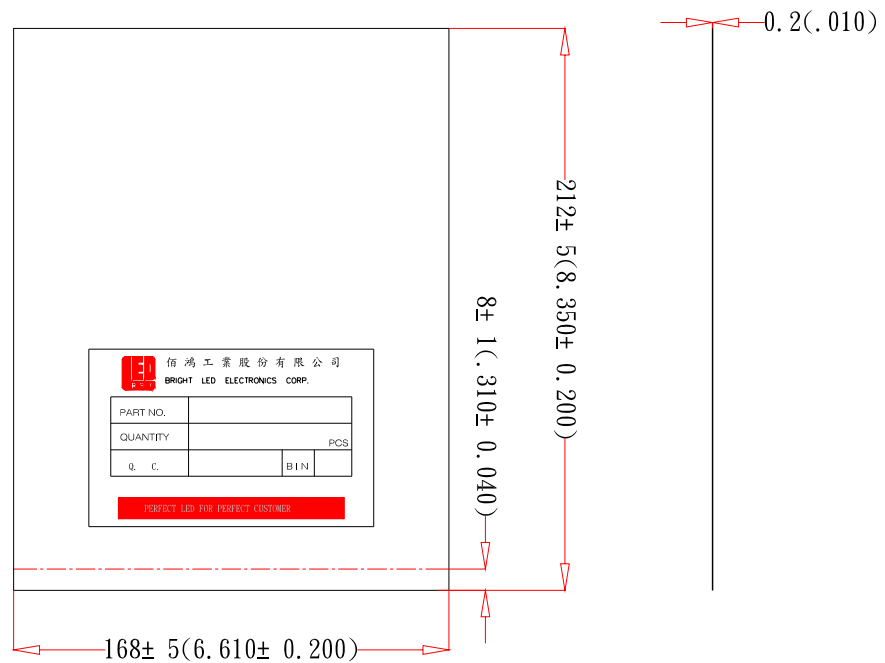
### ● Typical Optical-Electrical Characteristic Curves



## ● Tapping and packaging specifications(Units: mm)



## ● 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.