

END-LOOK PACKAGE LIGHT EMITTING DIODE

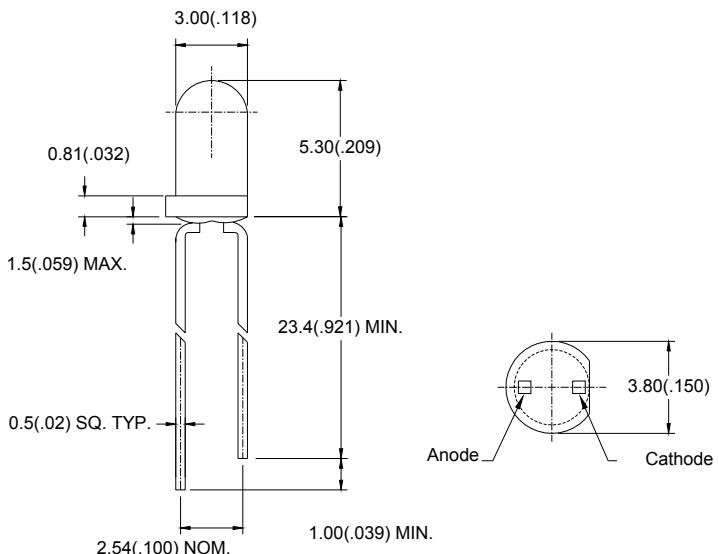
● Features:

1. High radiant power and high radiant intensity.
2. Standard T-1 package.
3. Peak wavelength $\lambda_p=940\text{nm}$.
4. Good spectral matching to si-photodetector.
5. Radiant angle: 30°
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 | Pd | 100 | mW |
| Continuous Forward Current | I _F | 100 | mA |
| Peak Forward Current | I _{FP} | 1.0 | A |
| Reverse Voltage | V _R | 5 | V |
| Operating Temperature | T _{opr} | -45°C~85°C | - |
| Storage Temperature | T _{stg} | -45°C~100°C | - |
| Soldering Temperature | T _{sol} | 260°C(for 5 seconds) | - |

*¹ Condition for is I_{FP} pulse of 1/10 duty and 0.1 msec width.

- Optical- Electrical Characteristics (@ $T_A=25^\circ C$)

| Parameter | Symbol | Test Conditions | Min | TYP | Max | Unit |
|---------------------------|------------------|-----------------|-------|------|------|---------|
| Radiant Intensity | I_e | $I_F=50mA$ | 11.78 | 33.4 | - | mW/sr |
| Forward Voltage | V_F | $I_F=50mA$ | - | 1.25 | 1.50 | V |
| Reverse Current | I_R | $V_R=5V$ | - | - | 100 | μA |
| Peak Wavelength | λ_p | $I_F=20mA$ | - | 940 | - | nm |
| Spectral Line Half- Width | $\Delta \lambda$ | $I_F=20mA$ | - | 50 | - | nm |
| Viewing Angle | $2\theta_{1/2}$ | $I_F=20mA$ | - | 30 | - | deg |

- Typical Optical-Electrical Characteristic Curves

Fig.1 Spectral Distribution

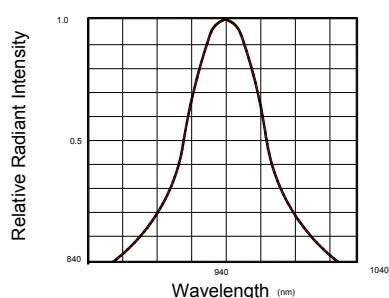


Fig.2 Forward Current Vs Ambient Temperature

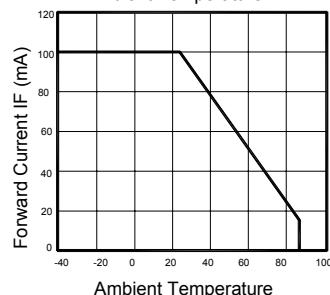


Fig.3 Forward Current Vs

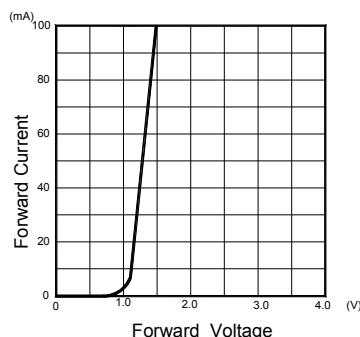


Fig.4 Relative Radiant Intensity Vs Ambient Temperature

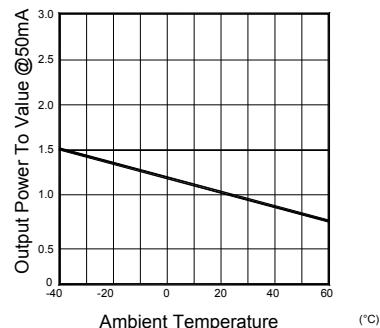


Fig.5 Relative Radiant Intensity Vs Forward Current

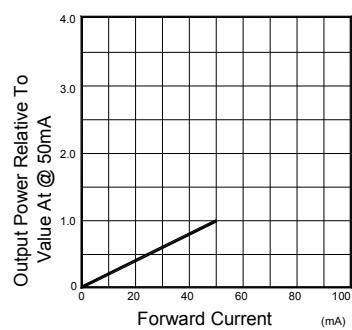
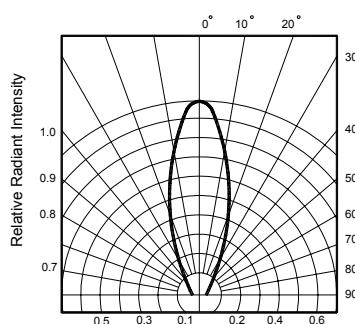
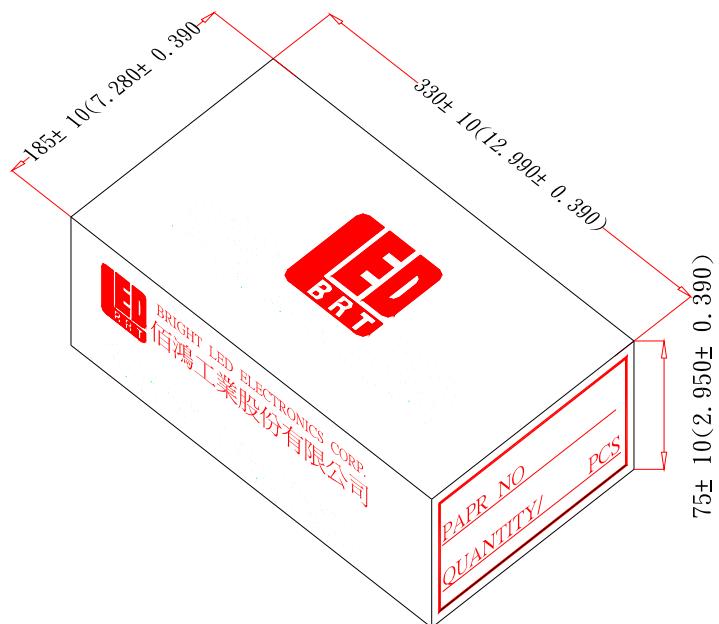


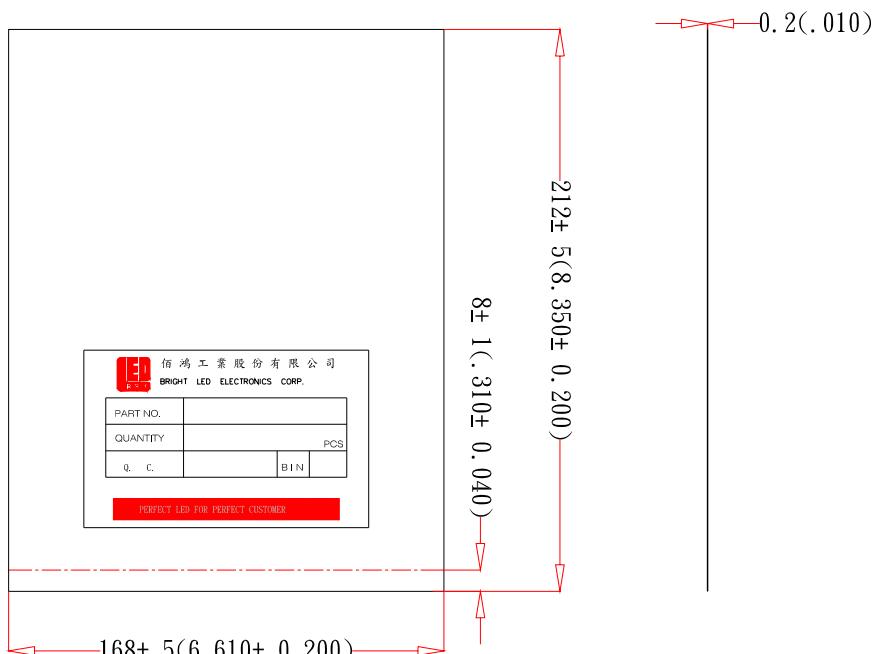
FIG.6 Radiant Diagram



● 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.