

SIDE-LOOK PACKAGE LIGHT EMITTING DIODE

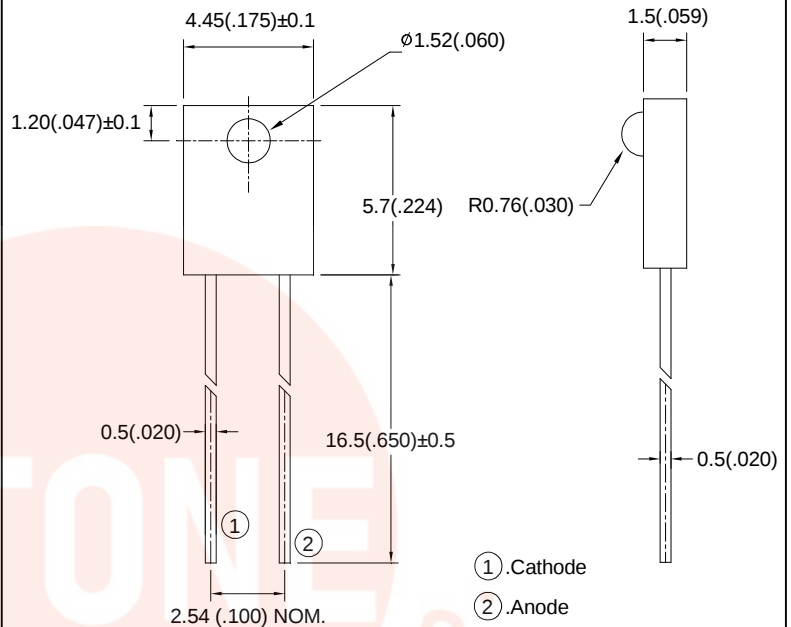
● Features:

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 ±0.25mm (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)

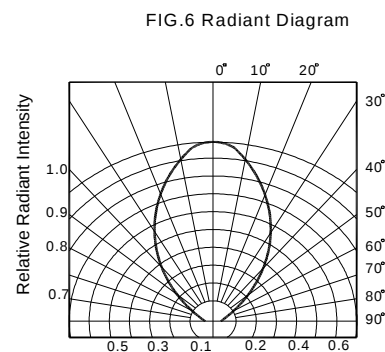
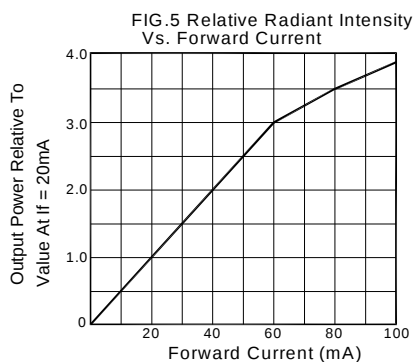
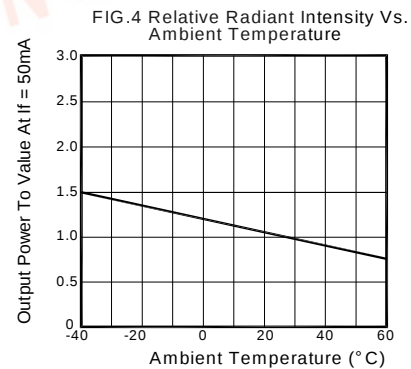
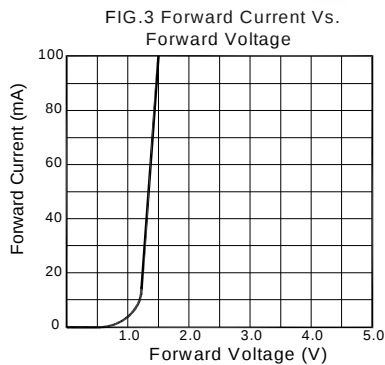
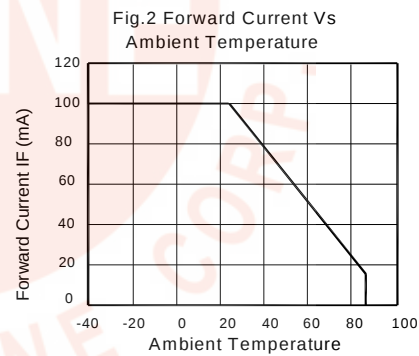
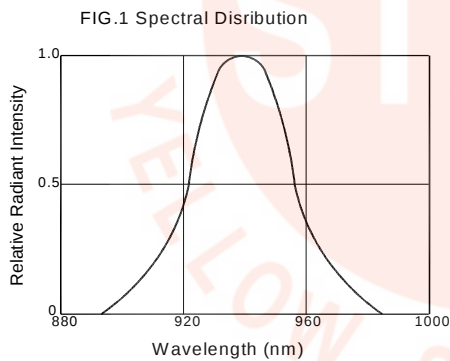
Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	120	mW
Continuous Forward Current	I _F	80	mA
Peak Forward Current ^{*1}	I _{FP}	1.0	A
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-40°C ~85°C	-
Storage Temperature	Tstg	-45°C ~85°C	-

^{*1} (300pps 10us pulse)

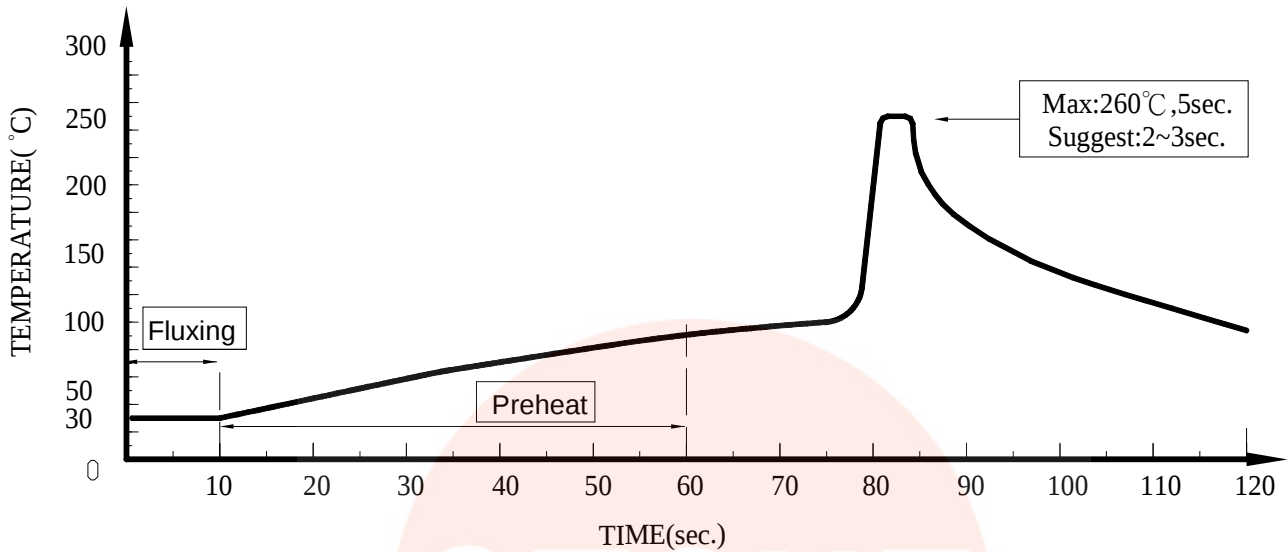
● Optical- Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	Ee	If=4mA	0.36	0.54	-	mW/cm ²
Forward Voltage	V _F	I _F =20mA	-	1.2	1.5	V
Reverse Current	I _R	V _R =8V	-	-	10	μA
Peak Wavelength	λ _p	I _F =50mA	-	940	-	nm
Spectral Line Half- Width	Δλ	I _F =50mA	-	50	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	65	-	deg

● Typical Optical-Electrical Characteristic Curves



● Dip Soldering

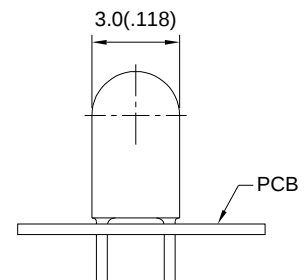


1. Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
2. DIP soldering and hand soldering should not be done more than one time.
3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temperature.
4. Avoid rapid cooling during temperature ramp-down process
5. Although the soldering condition is recommended above, soldering at the lowest possible temperature is feasible for the LEDs

● IRON Soldering

A: Max: 350°C Within 3 sec. One time only.

B: The products of 3mm without flange, welding condition of flat plate PCB Max: 350°C Within 2 sec. One time only





Infrared Emitting Diode Specification

- I Commodity: Infrared emitting diode
- I Collector Current Bin Limits (If=4mA)

BIN CODE	Min.(mW/cm ²)	Max.(mW/cm ²)
R2	0.36	0.44
R3	0.44	0.48
R4	0.48	0.52
R5	0.52	0.56
R6	0.56	0.60
R7	0.60	0.64
R8	0.64	0.68

NOTES: Tolerance of measurement of Radiant Intensity :±15%