

SIDE-LOOK PACKAGE LIGHT EMITTING DIODE

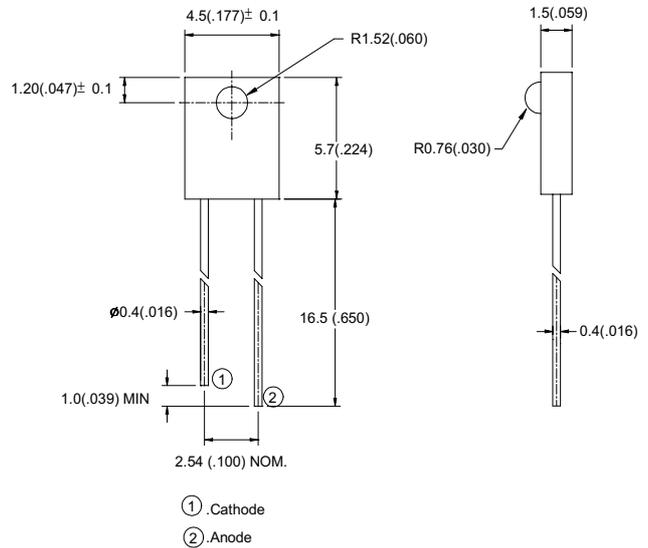
● **Features:**

1. Selected to specific on-line intensity and radiant intensity ranges.
2. Low cost, plastic side looking package
3. Lens Appearance: Water Clear.

● **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	75	mW
Continuous Forward Current	I _F	50	mA
Peak Forward Current ^{*1}	I _{FP}	1.0	mA
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-45°C~85°C	-
Storage Temperature	Tstg	-45°C~100°C	-
Soldering Temperature	Tsol	260°C (for 5 seconds)	-

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

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

Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	Ee	$I_f=20\text{mA}$	0.4	0.60	-	mW/cm^2
Forward Voltage	V_F	$I_f=20\text{mA}$	-	1.2	1.5	V
Reverse Current	I_R	$V_R=5\text{V}$	-	-	100	μA
Peak Wavelength	λ_p	$I_f=20\text{mA}$	-	940	-	nm
Spectral Line Half- Width	$\Delta \lambda$	$I_f=20\text{mA}$	-	50	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_f=20\text{mA}$	-	40	-	deg

● **Typical Optical-Electrical Characteristic Curves**

FIG.1 Spectral Distribution

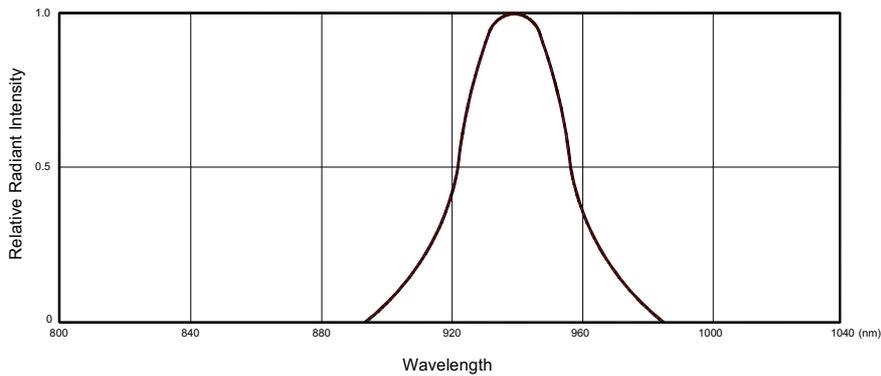


FIG.2 Forward Current Vs. Forward Voltage

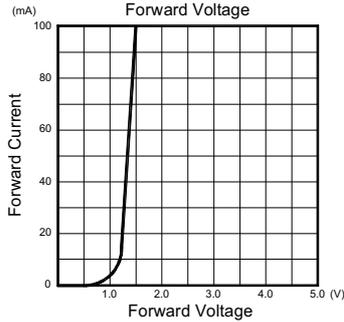


FIG.3 Relative Radiant Intensity Vs. Ambient Temperature

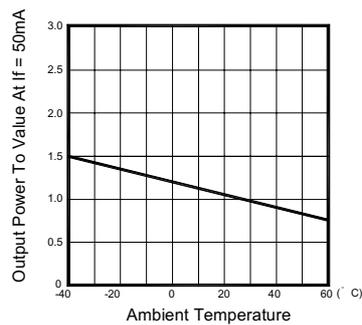


FIG.4 Relative Radiant Intensity Vs. Forward Current

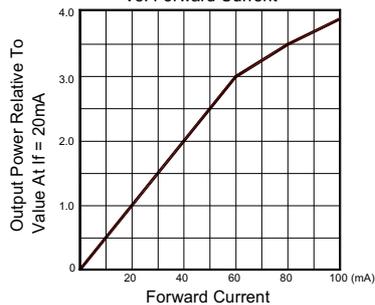


FIG.5 Radiant Diagram

