END-LOOK PACKAGE LIGHT EMITTING DIODE

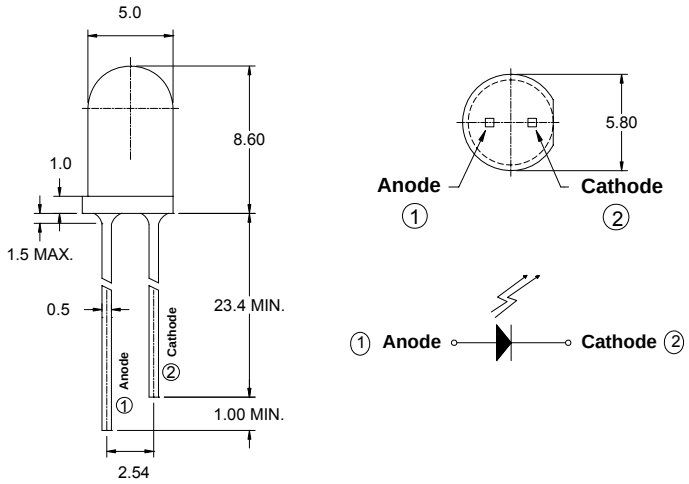
Features:

1. High radiant power and high radiant intensity.
2. Standard T-1package.
3. Peak wavelength λp=940nm.
4. Good spectral matching to si-photodetector.
5. Radiant angle:20°
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 ±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℃)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	100	mW
Continuous Forward Current	I_F	100	mA
Peak Forward Current *1	I_{FP}	1.0	A
Reverse Voltage	V_R	5	V
Operating Temperature	Topr	-45℃~85℃	-
Storage Temperature	Tstg	-45℃~100℃	-
Soldering Temperature	Tsol	260℃(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℃)

Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	Ie	I_F=50mA		55	-	mW/sr
Forward Voltage	V_F	I_F=50mA	-	1.3	1.5	V
Reverse Current	I_R	V_R=5V	-	-	100	μA
Peak Wavelength	λp	I_F=20mA	-	940	-	nm
Spectral Line Half- Width	Δλ	I_F=20mA	-	50	-	nm
Viewing Angle	$2\theta_{1/2}$	I_F=20mA	-	20	-	deg

Typical Optical-Electrical Characteristic Curves

Fig.1 Spectral DIstrbution

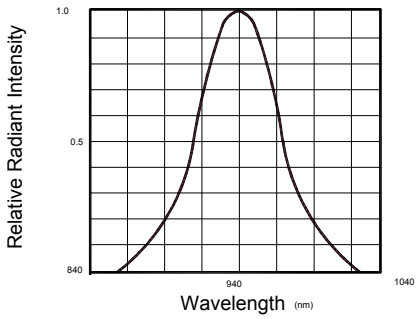


Fig.2 Forward Current Vs Ambient Temperature

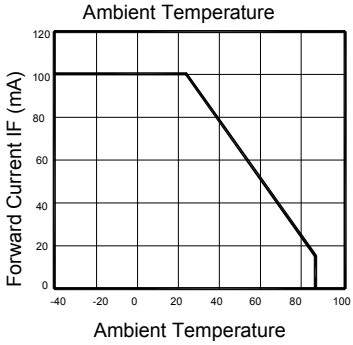


Fig.3 Forward Current Vs

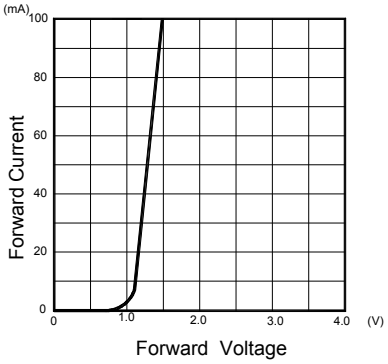


Fig.4 Relative Radiant Intensity Vs Ambient Tembeb Ature

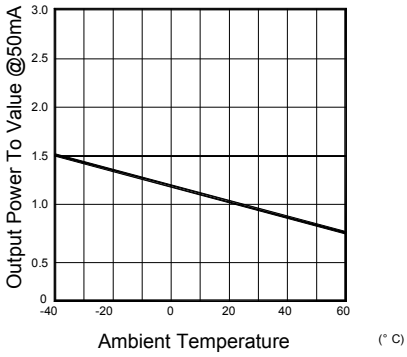


Fig.5 Relative Radiant Intensity Vs Forward Current

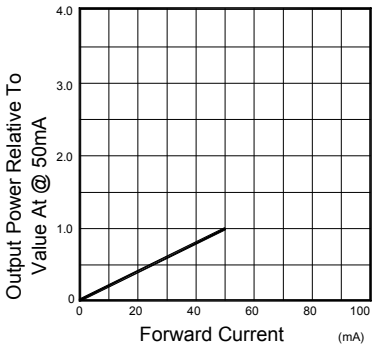


FIG.6 Radiant Diagram