

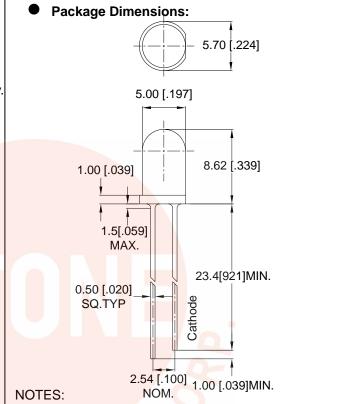
END-LOOK PACKAGE LIGHT EMITTING DIODE

Features:

- 1. High radiant power and high radiant intensity.
- 2. Standard T-1 3/4(5mm)package.
- 3. Peak wavelength λ p=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.



- 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℃)

- 100 course in annual of the 100 co						
Parameter	Symbol	Rating	Unit			
Power Dissipation	Pd	150	mW			
Continuous Forward Current	l _F	100	mA			
Peak Forward Current *1	I _{FP}	1.0	А			
Reverse Voltage	V_R	5	V			
Operating Temperature	Topr	-40°C ~85°C	-			
Storage Temperature	Tstg	-45°℃~85°℃	-			

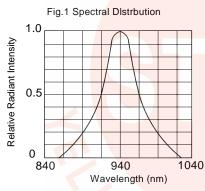
^{*1 (300}pps 10us pulse)

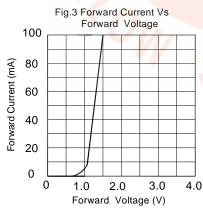


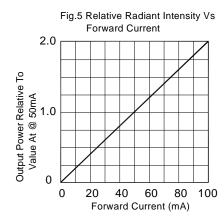
● Optical- Electrical Characteristics (Ta=25°C)

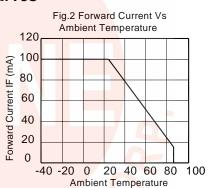
Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	le	I _F =50mA	19.42	46.8	-	mW/sr
Forward Voltage	V _F	I _F =50mA	-	1.25	1.5	V
Reverse Current	I _R	V _R =5V	-	-	100	μΑ
Peak Wavelength	λр	I _F =50mA	-	940	-	nm
Spectral Line Half- Width	Δλ	I _F =50mA		50	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA		20	-	deg

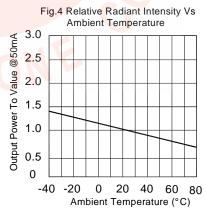
Typical Optical-Electrical Characteristic Curves

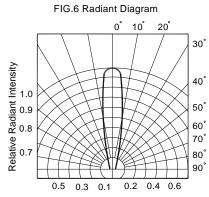






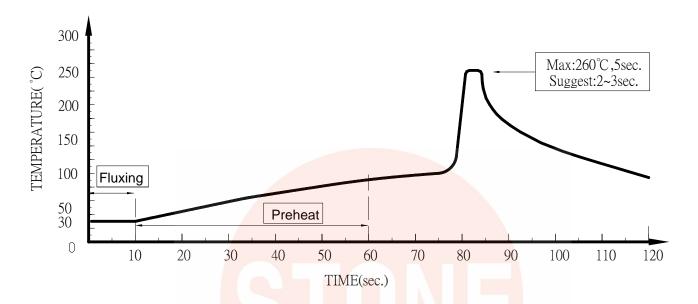








Dip Soldering



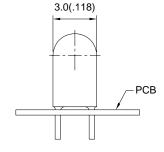
- 1. Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
- 2. DIP soldering and hand soldering should not be done more than one time.
- 3. After soldering, avoid the epoxy lens from mechanical shock or vibration until 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

●Commodity: Infrared emitting diode

●Intensity Bin Limits (At 50mA)

BIN CODE	Min.(mW/sr)	Max.((mW/sr)		
13	19.42	27.20		
14	27.20	38.08		
15	38.08	53.31		
16	53.31	74.63		
17	74.63	104.48		

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