

Features:

1. Chip material: AlGaAs (Red)

2. Emitted color: Red

3. Lens Appearance: Red Diffused

4. Designed for ease in circuit board assembly.

5. Black case enhance contrast ratio.

6. Solid state light source.

7. Reliable and rugged.

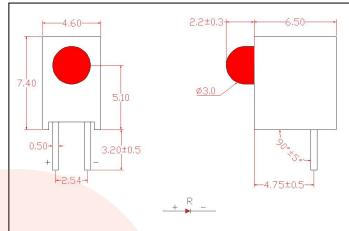
8. 3mm diameter package.

9. This product don't contained restriction substance, compliance ROHS standard.

Applications:

- 1. TV set
- 2. Monitor
- 3. Telephone
- 4. Computer
- 5. Circuit board

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	Red	Unit
Power Dissipation	Pd	75	mW
Forward Current	I _F	30	mA
Peak Forward Current*1	I _{FP}	150	mA
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-30℃~80℃	
Storage Temperature	Tstg	-40°℃~85°℃	
Soldering Temperature	Tsol	260°C (for 5 seconds)	

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

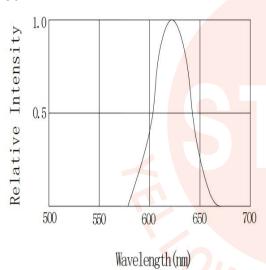


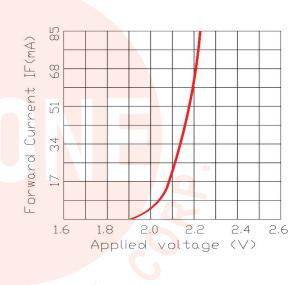
■ Electrical and optical characteristics(Ta=25°C)

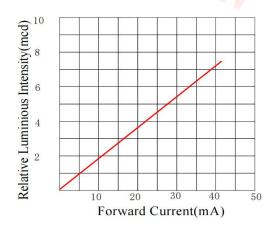
Parameter	Symbol	Condition	Color	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I₅=20mA	Red	1.8	2.0	2.4	V
Luminous Intensity	lv	I _F =20mA	Red	1		10	mcd
Reverse Current	I _R	V _R =5V	Red	-	-	10	μΑ
Peak Wave Length	λр	I _F =20mA	Red	-	-	-	nm
Dominant Wave Length	λd	I _F =20mA	Red	630	-	650	nm
Spectral Line Half-width	Δλ	I _F =20mA	Red	-	30	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	Red	-	50	-	deg

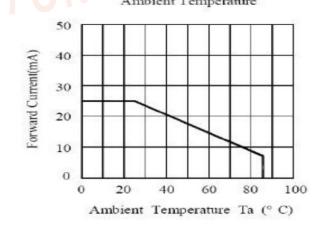
Typical Electro-Optical Characteristics Curves

Red







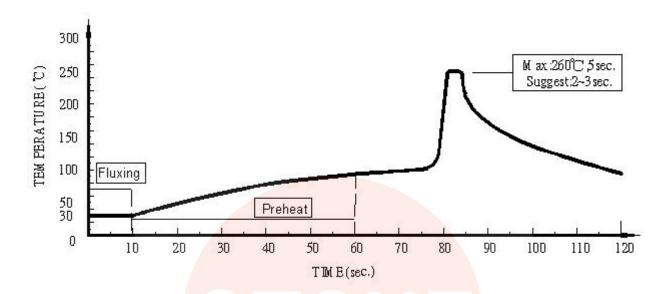


Forward Currend Vs Relative luminious Intensity

PCB



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 temerature.
- 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