

Features:

1. Chip material: Gap(Red)

2. Emitted color: Red and Green

3. Lens Appearance : Red Diffused

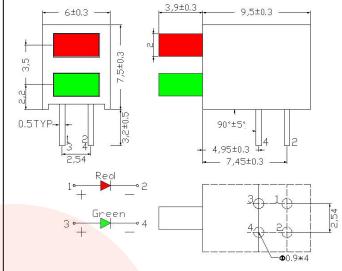
and Green Diffused

- 4. Designed for ease in circuit board assembly.
- 5. Black case enhance contrast ratio.
- 6. Solid state light source.
- 7. Reliable and rugged.
- 8. 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	Green	Unit		
Power Dissipation	Pd	70	80	mW		
Forward Current	I _F	30	20	mA		
Peak Forward Current*1	I _{FP}	110	150	mA		
Reverse Voltage	V _R	5	5	V		
Operating Temperature	Topr	-40℃~85℃	-40℃~80℃			
Storage Temperature	Tstg	-40°C				
Soldering Temperature	Tsol	260°C max (fo				
Hand Soldering Temperature	Tsol	350°C max(fo				

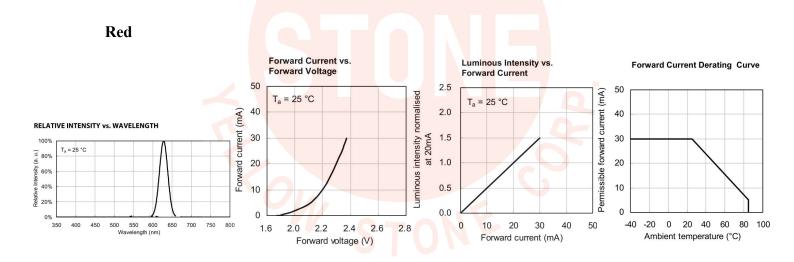
^{*1}Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.



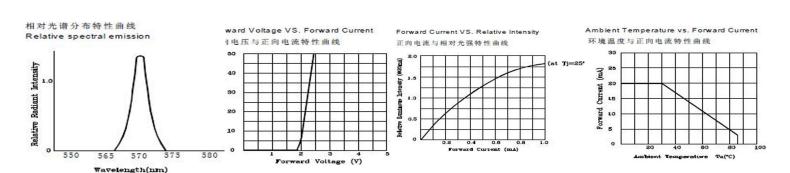
■ Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Color	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F =20mA	Red Green	1.9 1.8	2.3 2.0	2.7 2.4	V
Luminous Intensity	lv	I _F =20mA	Red Green	0.2 5	1.0 -	2.0 30	mcd
Reverse Current	I _R	V _R =5V	Red Green	-	-	10 10	μΑ
Peak Wave Length	λр	I _F =20mA	Red Green	-	700 -	-	nm
Dominant Wave Length	λd	I _F =20mA	Red Green	- 565	635 -	- 575	nm
Spectral Line Half-width	Δλ	I _F =20mA	Red Green	-	30 20	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	Red Green	-	160 60	-	deg

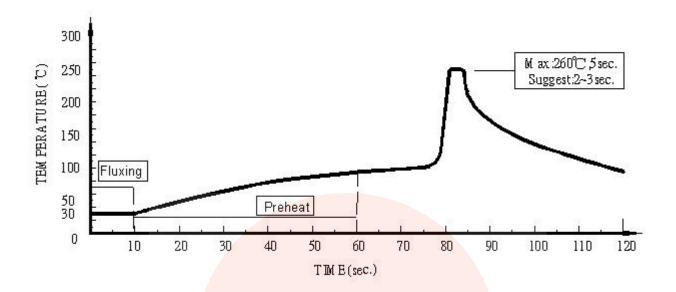
■ Typical electro-optical characteristics curves



Green



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
- 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

