

#### Features:

1. Chip material: InGaN (Blue)

and GaP/GaP (Green)

2. Emitted color: Blue and Green

3. Lens Appearance: Blue Diffused

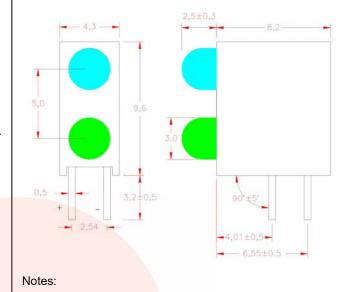
and Green Diffused

- 4. Designed for ease in circuit board assembly.
- 5. Black case enhance contrast ratio.
- 6. Solid state light source.
- 7. Reliable and rugged.
- 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



- 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	Blue	Green	Unit	
Power Dissipation	Pd	120	80	mW	
Forward Current	l <sub>F</sub>	30	30	mA	
Peak Forward Current*1	I <sub>FP</sub>	150	150	mA	
Reverse Voltage	V <sub>R</sub>		V		
Operating Temperature	Topr	-40℃			
Storage Temperature	Tstg	-40℃			
Soldering Temperature	Tsol	260℃max (f			
Hand Soldering Temperature	Tsol	350°C max(fo			

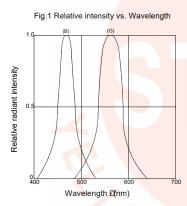
<sup>\*1</sup>Condition for I<sub>FP</sub> is pulse of 1/10 duty and 0.1msec width.

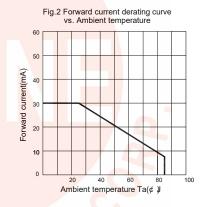


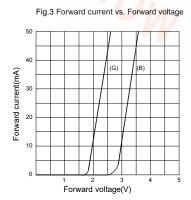
## ■ Electrical and optical characteristics(Ta=25°C)

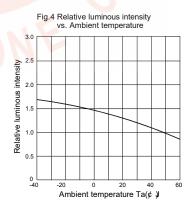
Parameter	Symbol	Condition	Color	Min.	Тур.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	Blue Green	2.7 1.8	-	3.3 2.6	V
Luminous Intensity	lv	I <sub>F</sub> =20mA	Blue Green	1200 40	-	2200 80	mcd
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	Blue Green	-	-	10	μΑ
Peak Wave Length	λр	I <sub>F</sub> =20mA	Blue Green	-	470 570	-	nm
Dominant Wave Length	λd	I <sub>F</sub> =20mA	Blue Green	465 565	-	475 575	nm
Spectral Line Half-width	Δλ	I <sub>F</sub> =20mA	Blue Green	-	30 30	-	nm
Viewing Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	Blue Green	-	30 35	-	deg

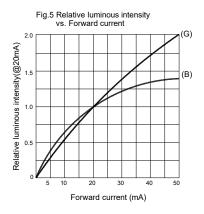
### Typical Electro-Optical Characteristics Curves

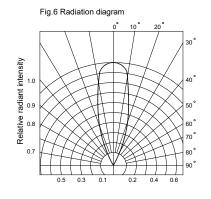






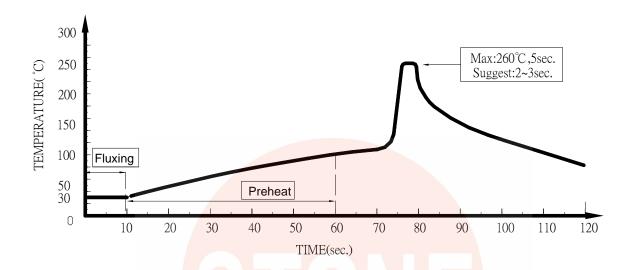








### Dip Soldering



- 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: For 3mm LED without flange, if the LED epoxy lays flat on the PCB, the welding condition is 350°C within 2 seconds, one time only.

