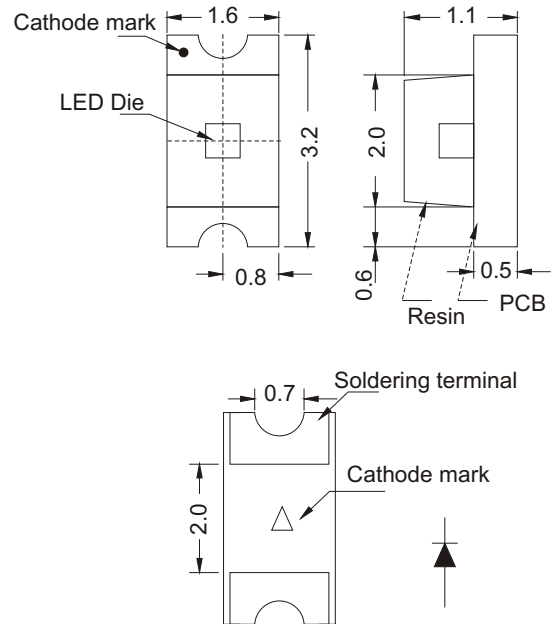




### ● Features:

- 1. Chip material: GaAlAs/GaAs
- 2. Emitting color: Hi-Red
- 3. Lens Appearance: Water Clear
- 4. Long life-solid state reliability
- 5. Compatible with automatic placement equipment
- 6. Compatible with reflow solder process
- 7. RoHS compliant

### ● Package dimensions



### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25\text{mm}$  (0.01") unless otherwise specified.
- 3. Specifications are subject to change without notice.

### ● Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

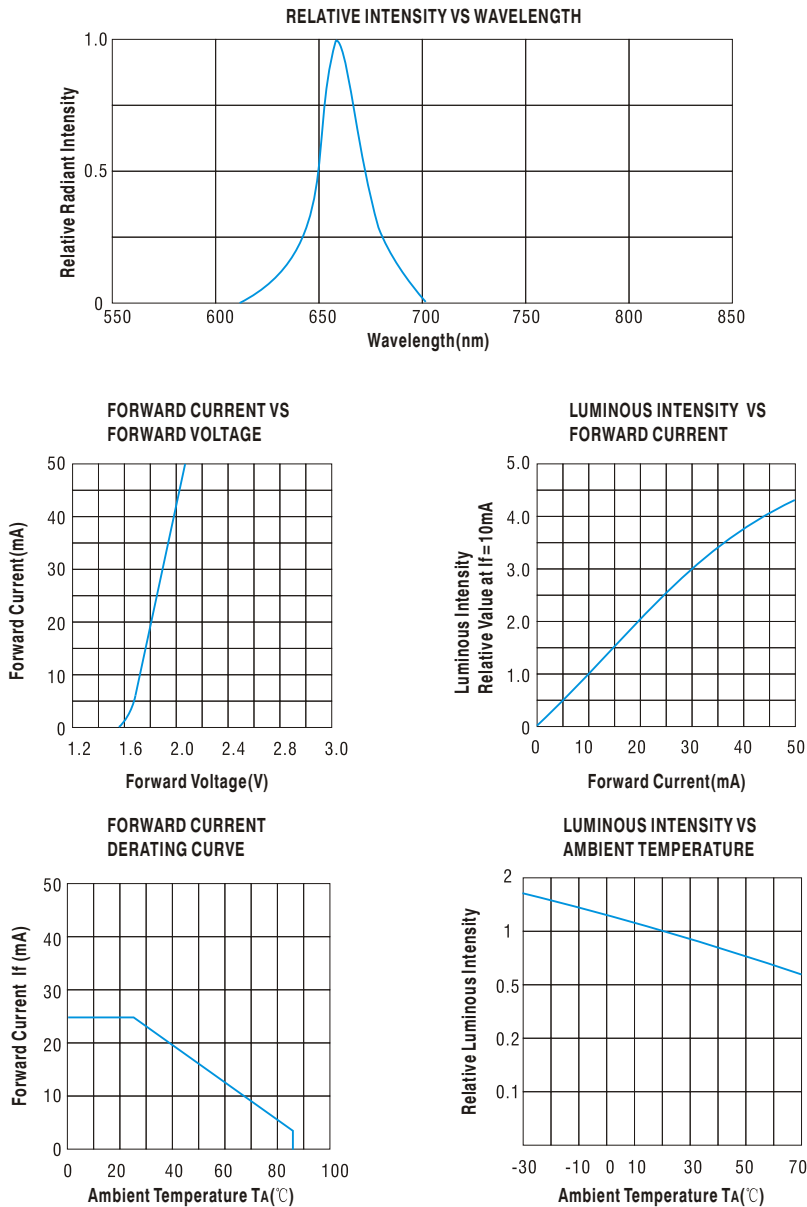
Characteristic	Test Condition	Symbol	SR	Units
Pulse Forward Current	1/10 duty cycle 0.1ms Pulse width	$I_{FP}$	80	mA
DC Forward Current		$I_F$	25	mA
Reverse Current	$V_R = 5V$	$I_R$	10	$\mu A$
Power Dissipation		$P_D$	60	mW
Operating Temperature		$T_{OPR}$	-40 to +80	$^\circ\text{C}$
Storage Temperature		$T_{STG}$	-40 to +85	$^\circ\text{C}$
Lead Soldering Temperature	1.60mm from body maximum 3 seconds	$T_{SOL}$	260	$^\circ\text{C}$



### ● Electrical And Optical Characteristics(Ta=25°C)

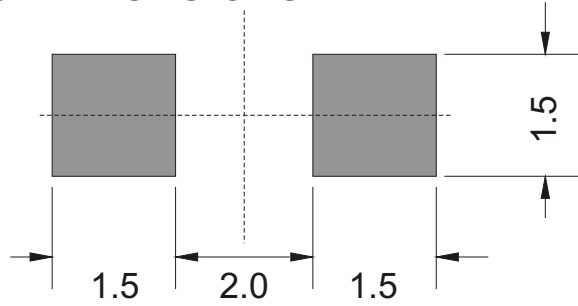
Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Units
Forward Voltage	IF=20mA	V <sub>F</sub>	---	1.80	2.20	V
Reverse Current	V <sub>R</sub> =5V	I <sub>R</sub>	---	---	10	μA
Peak Wavelength	IF=20mA	λ <sub>p</sub>	---	660	---	nm
Dominant Wavelength	IF=20mA	λ <sub>D</sub>	638	---	645	nm
Spectral Line Half-width	IF=20mA	Δλ	---	20	---	nm
Luminous Intensity	IF=20mA	I <sub>v</sub>	9	---	25	mcd
Viewing Angle	IF=20mA	2θ½	---	120	---	deg.

### ● Typical electro-optical characteristics curves





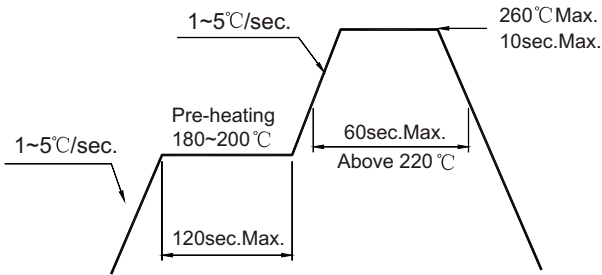
### ● Soldering Pad Dimensions:



### ● Soldering Conditions:

#### 1. Reflow soldering profile

Lead-free solder



#### 2. Soldering Iron

Power dissipation of iron should be smaller than 25W, and temperature should be controllable. The work must be finished within 3sec. under 300°C only once.

Do not stress its resin while soldering.

After soldering, do not warp the circuit board.

### ● Package Tape Specifications:(3000pcs/Reel)

