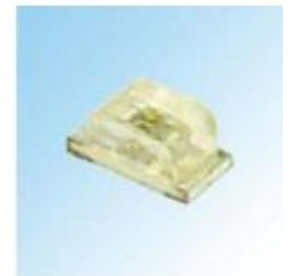


❖ **Features:**

- 2.0*1.25*0.8 mm
- Mono-color type
- Soldering methods :All SMT assembly methods
- Comply ROHS standard



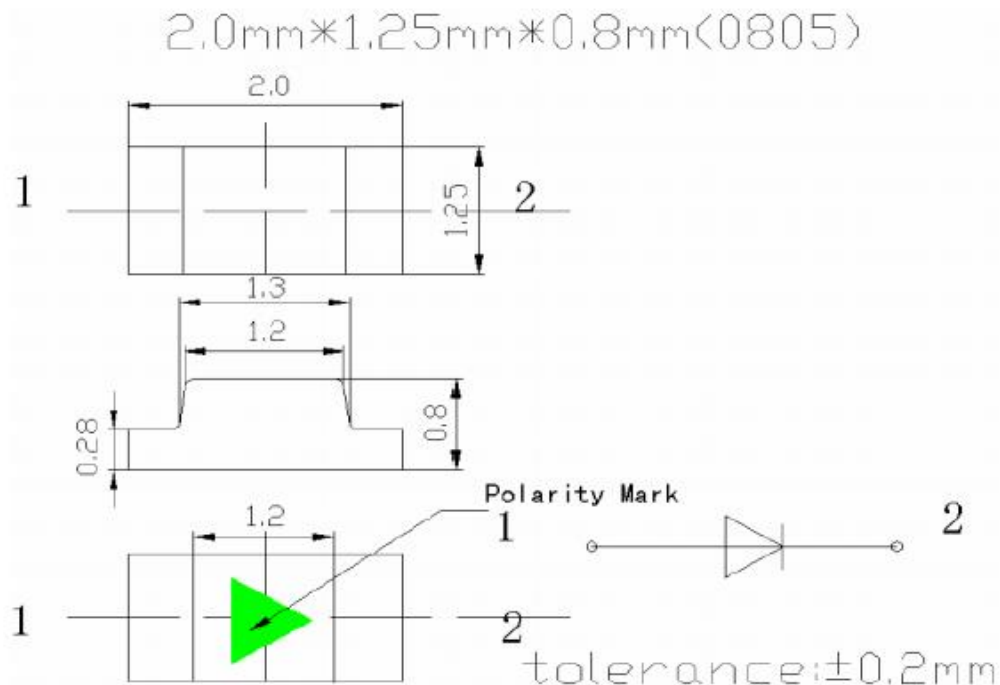
❖ **Description**

The Red source color devices are made with AlGaInP on sapphire Light Emitting Diode.

❖ **Application**

- Optical indicator
- Indicator and backlighting in telephone and fax
- Flat backlight for LCD, switch and symbol
- Light pipe application
- General use

❖ **Package Dimensions**



NOTES:

1. All dimensions are in millimeter[unit];
2. Tolerance is±0.2mm(0.008 ") unless other specified;
3. Specifications are subject to change without notice.

Emitted Color	Len's Color	Chip Material
Red	Water clear	AlGaInP

✧ Absolute Maximum Ratings(Ta=25°C)

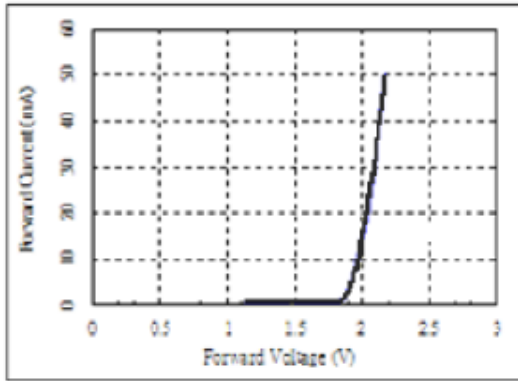
Item	Symbol	Maximum	Unit
Power Dissipation	PD	75	mW
Continuous Forward Current	I_{Fmax}	30	mA
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	I_{FP}	185	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_{opr}	-40 to+85	°C
Storage Temperature Range	T_{stg}	-40 to+85	°C
Lead Solder Temperature	T_{sol}	260°C for 3 seconds	

✧ Electrical/Optical Characteristics(Ta=25°C)

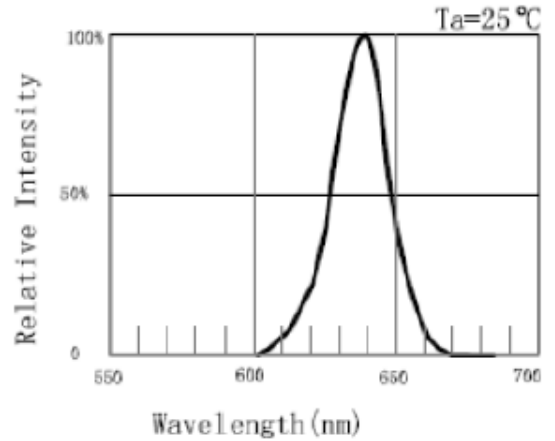
Item	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	V_F	$I_F=20mA$	1.8	2.2	2.4	V
Luminous Intensity	I_V	$I_F=20mA$	60	80	---	mcd
Wavelength	λ	$I_F=20mA$	620	625	---	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	--	35	--	Deg
Reverse Current	I_R	$V_R=5V$	--	--	10	uA

✧ Typical Electro-Optical Characteristics Curves

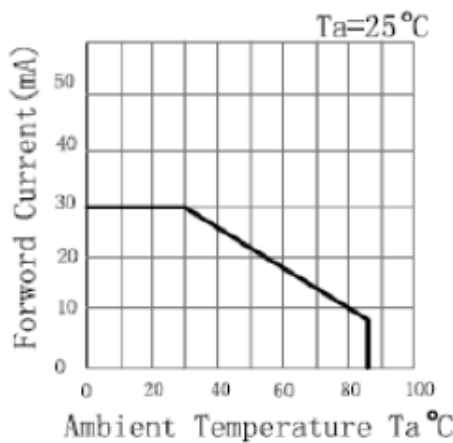
Forward Current Vs. Forward Voltage



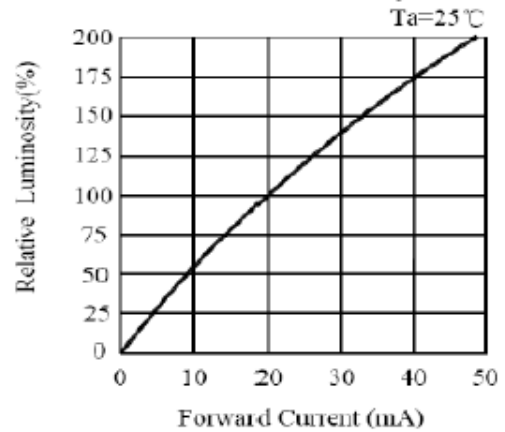
Relative Intensity VS Wavelength



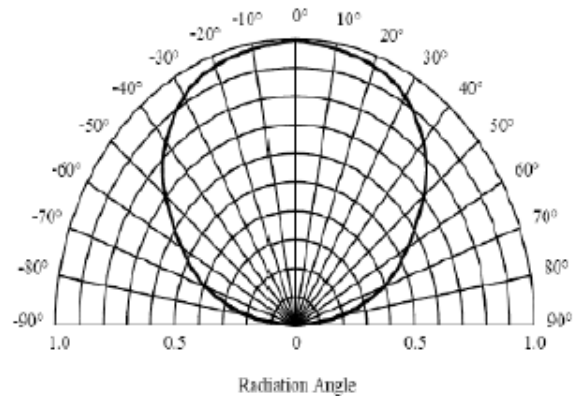
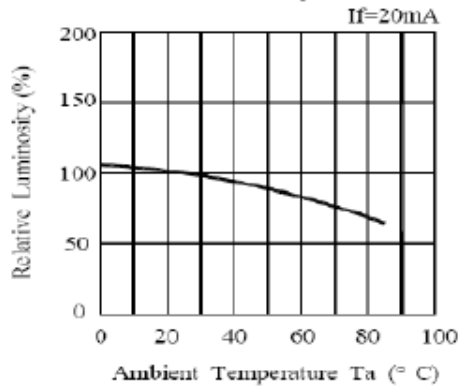
Forward Current VS Ambient Temperature



Forward Current Vs. Relative Luminosity



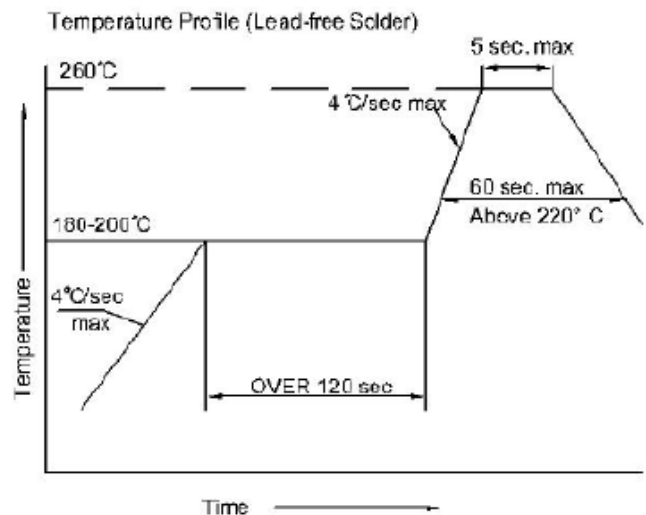
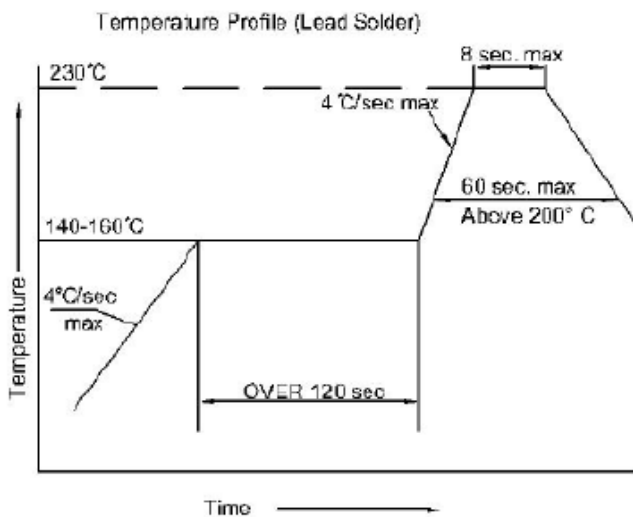
Relative Luminosity Vs. Ambient Temperature



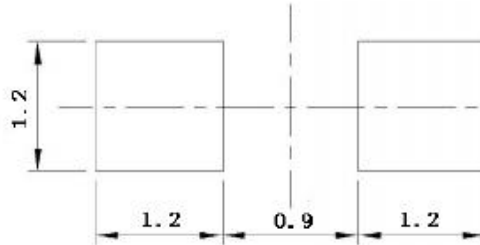
❖ Reliability Test Items And Conditions

NO.	Item	Test Condition	Test Hr/cycle/time	Sample Q'ty	Ac/Re
1	Reflow	TEMP:260±5°C; Min.5Sec	6 min	22pcs	0/1
2	Temperature Cycle	H:+90°C 30mins To(5mins) L:-30°C 30mins	300 cycles	22pcs	0/1
3	Thermal Shock	H:+100°C 20mins To(5mins) L:-40°C 20mins	300 cycles	22pcs	0/1
4	High Temperature Storage	TEMP:+100°C	1000hrs	22pcs	0/1
5	Low Temperature Storage	TEMP:-30°C	1000hrs	22pcs	0/1
6	DC Operating Life	IF=20MA	1000hrs	22pcs	0/1
7	High Temperature	65°C	240hrs	22pcs	0/1
8	High Humidity	R.H.= 85%		22pcs	0/1

❖ Reflow Temp/Time :



❖ Recommended Soldering Pad Dimensions



❖ Tape Specification: 3,000pcs

