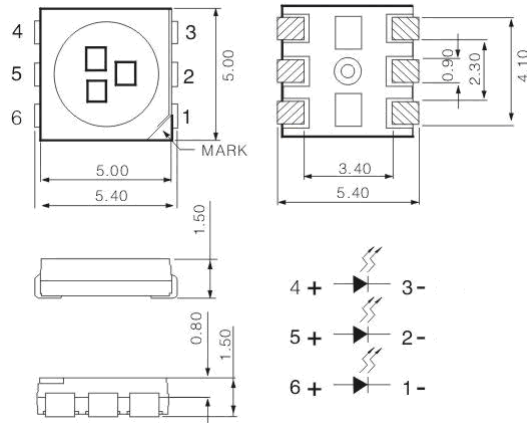




- 5mmx5mm SMD LED, 1.5mm THICKNESS.
(5mmx5mm SMD)

- WIDE SIDE VIEWING ANGLE.
- LOWPOWER CONSUMPTION.

Package Dimensions



1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings at TA=25°C

Parameter	Maximum Rating	Unit
Power Dissipation	200	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse width)	150	mA
Continuous Forward Current	150	mA
Derating Linear From 50°C	0.4	mA /°C
Operation Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature [4mm (.157") From Body]	260°C for 5 Seconds	

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity(IV)	IV	12		16	Mw	IF=60mA
Viewing Angle	2θ1/2		120		deg	Note 2
Forward Voltage	VF	3.2		3.8	V	IF=60mA
Wavelength	wl	380		385	nm	IF=60mA
Reverse Current	IR	-	-	2	μA	VR=-5V

Note: 1. The dominant Wavelength, λ_{dom} is derived from the CIE chromaticity diagram and

represents the single wavelength which define the color of the device.

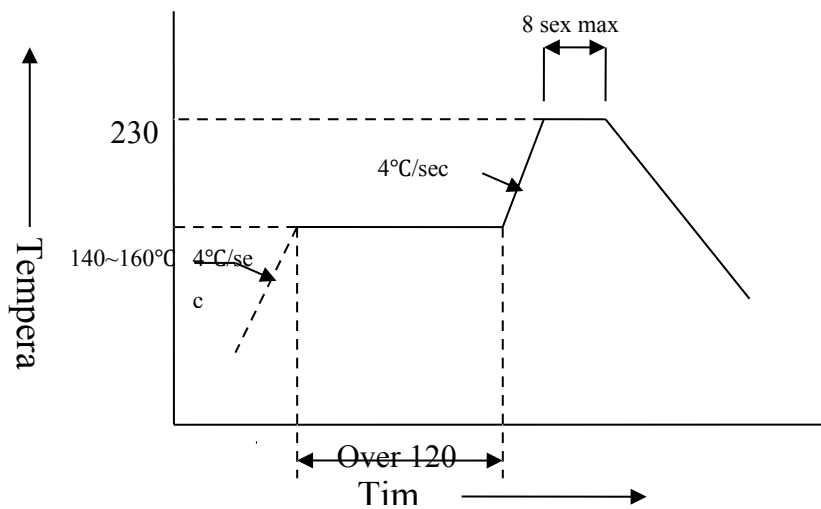
2. $2\theta_{1/2}$ is the off-axis angle where the luminous intensity is one half the on-axis intensity.

3. Luminous intensity is measured by SEALAND equipment on Top LED in the same lot.

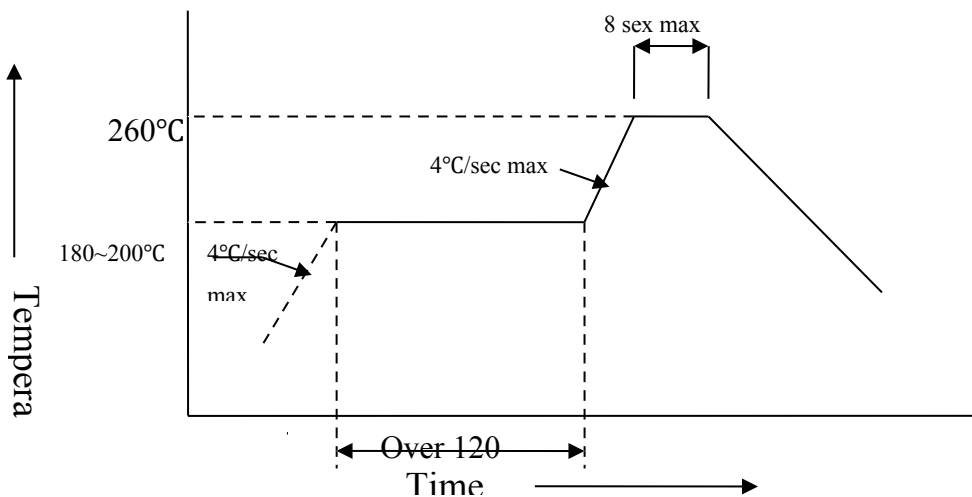
Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and Second soldering process.

1>Lead Solder

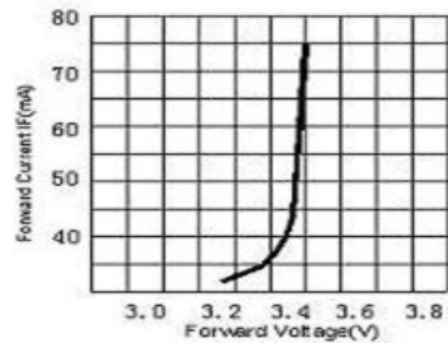
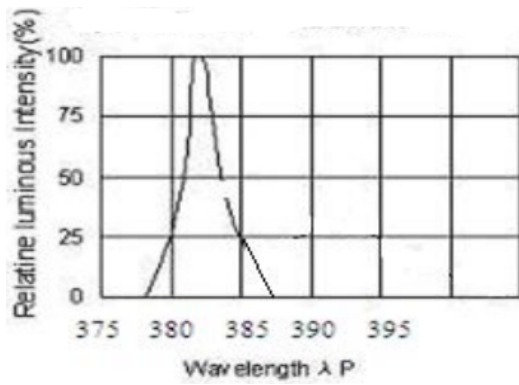


2>Lead-Free Solder



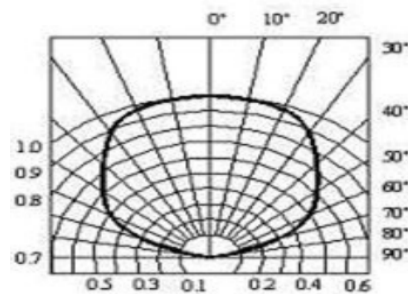
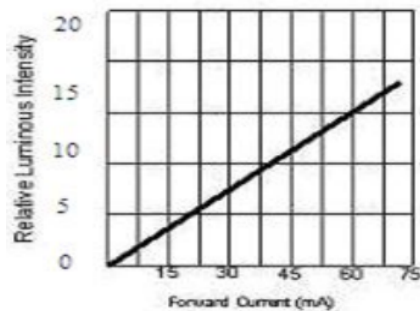
Typical Electrical/Optical Characteristic Curves (If=60mA; TA=25°C)

Spectrum Distribution TA=25°C Forward Current Vs Forward Voltage



Relative Luminous Intensity vs Forward Current

Radiation Diagram



Specification for Approval

Reliability performance Test items and result

Test classification	Test item	Test condionts	Test duration	Sample size	AC/RE
Life test	Room temperature DC operating life test	Ta=25±5°C IF=60mA	1000hrs	30pcs	0/1
Environment test	Thermal shock Test	-10±5°C←→+100±5°C 5min 10sec 5min	50cysles	30pcs	0/1
	High temperature & High humidity test	Ta=85±5°C RH=85%±0.5%RH	1000hrs	30pcs	0/1
	High temperature storage	Ta =100±5 °C	1000hrs	30pcs	0/1
	Low temperture storage	Ta =-55±5°C	1000hrs	30pcs	0/1
	Temperature cycle test	-40±5°C←→+85±5°C 30min 5sec 30min	50cysles	50cysles	0/1
Mechanical test	Resistance to soldering heat	Ta =230±5°C	5sec	30pcs	0/1
	Lead integrity	Load 2.5N(0.25KGf) 0 °C ~ 90 °C ~ 0°C	3times	30pcs	0/1