World Trading Net GmbH & Co. KG
Löwentorstraße 40 • 99752 Bleicherode
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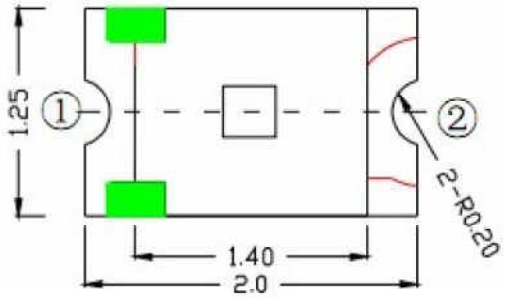
SMD LED 0805 Kingbright

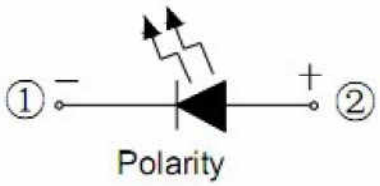
1. Features

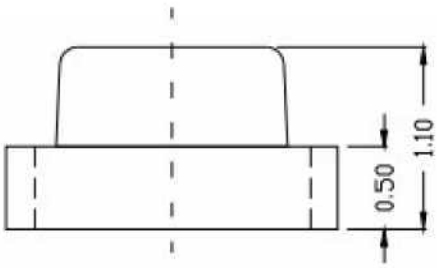
- Package (L/W/H) : 2.0 × 1.25 × 1.1 mm
- Color : Ultra Bright Warm White(3500K)
- Lens: Yellow Diffuse Flat Mold
- EIA STD Package
- Meet ROHS, Green Product
- Compatible With SMT Automatic Equipment
- Compatible With Infrared Reflow Solder And Wave Solder Process

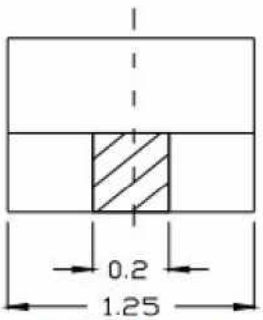
Number	Part Number
10x	26005084
20x	26005085
50x	26005086
100x	26005087
200x	26005088

2. Package Profile & Soldering PAD Suggested

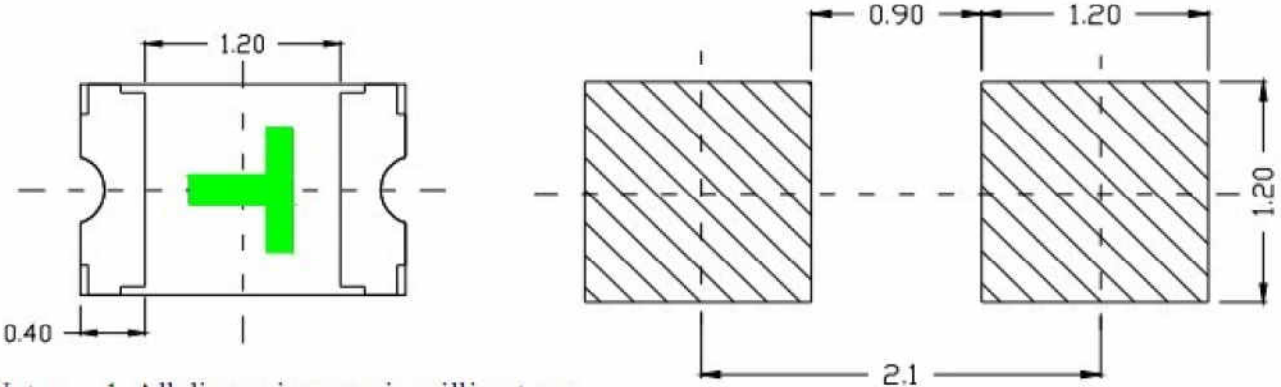








Soldering PAD Suggested:



Notes: 1. All dimensions are in millimeters ;
2. Tolerance is ± 0.10 mm unless otherwise noted.

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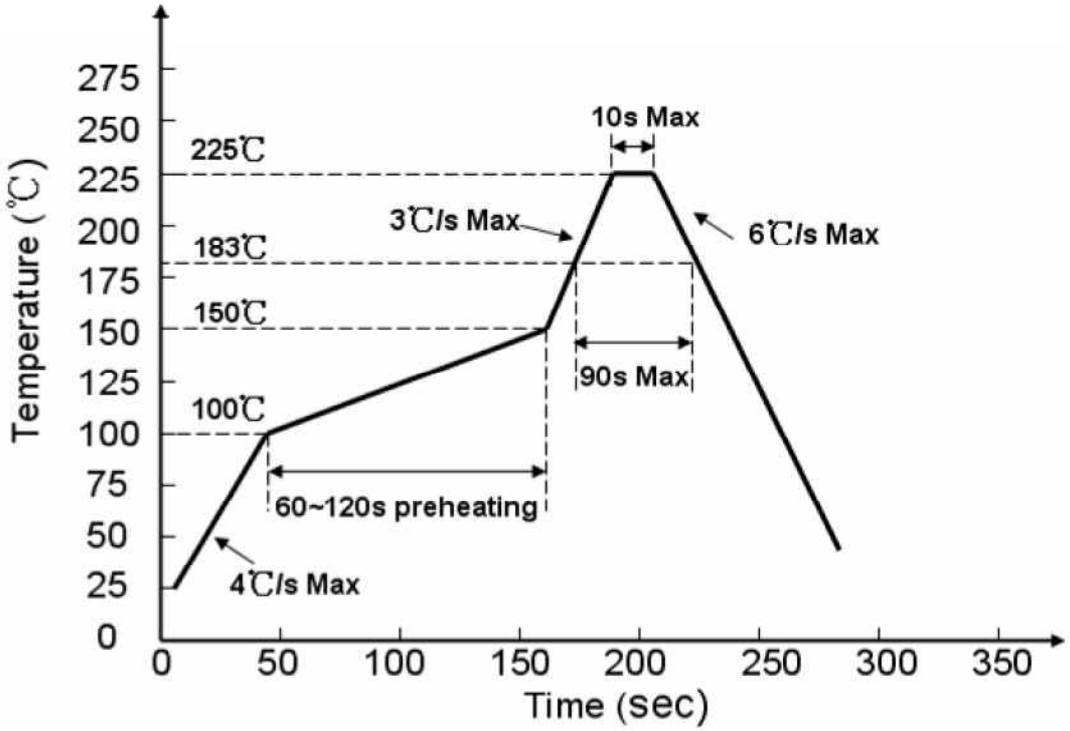
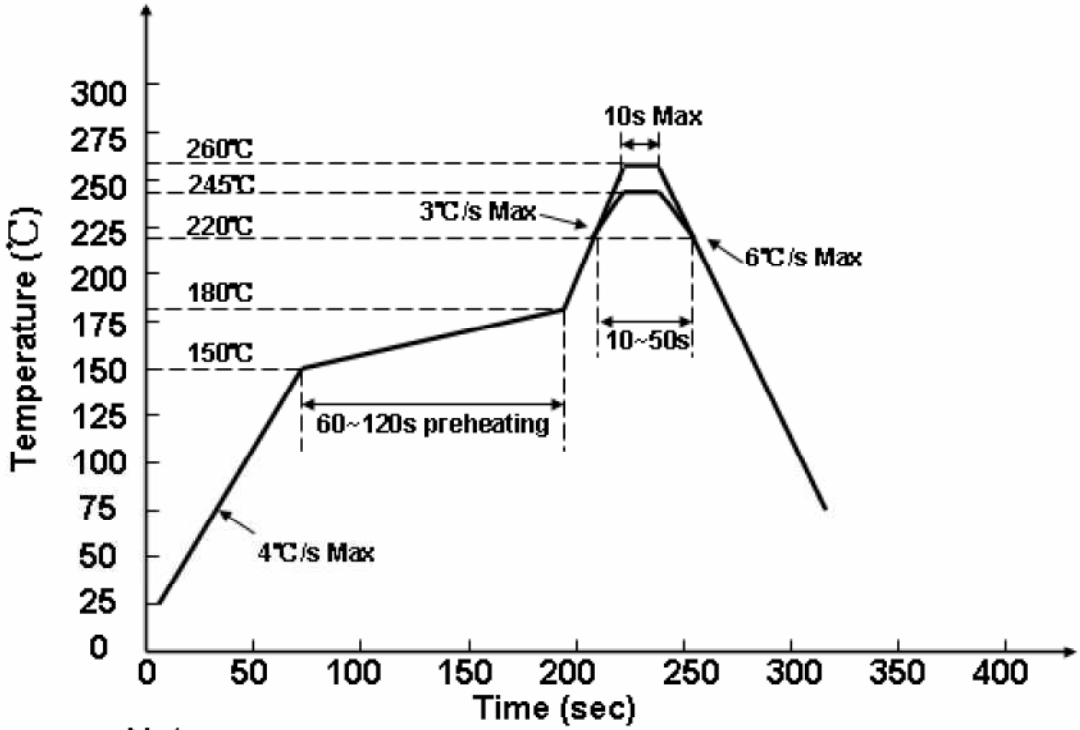
3. Soldering Profile Suggested

3.1 For Lead Solder



3.2 For Lead Free Solder



Notes:

We recommend the soldering temperature 245± 5℃ ;

The maximum temperature should be limited to 260 ℃.

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4. Absolute Maximum Ratings At Ta=25

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	90	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I_{FP}	100	mA
DC Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	Topr	-30°C ~ +85°C	
Storage Temperature Range	Tstg	-40°C ~ +90°C	
Soldering Condition	Tsol	Reflow soldering : 260°C For 5 Seconds Hand soldering: 300°C For 3 Seconds	

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5. Electrical Optical Characteristics At Ta=25

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	IV	---	350	---	mcd	IF = 20mA
Viewing Angle	2θ1/2	---	120	---	deg	IF = 20mA
CIE 1931 Coordinate	X/Y	---	X:0.43 Y:0.42	---		IF=20mA
Forward Voltage	VF	2.8	---	3.6	V	IF=20mA
Reverse Current	IR	---	---	10	uA	VR=5V

Notes: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength, λd is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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6. Typical Electrical-Optical Characteristics Curves

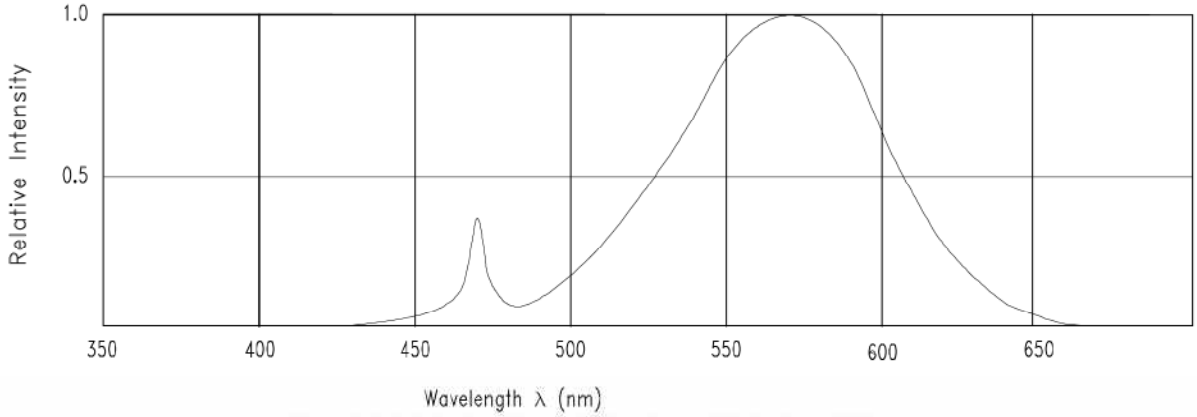

Fig.1 Relative Intensity vs. Wavelength

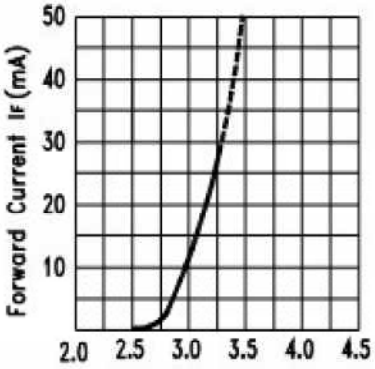

Fig.2 Forward Current vs. Forward Voltage

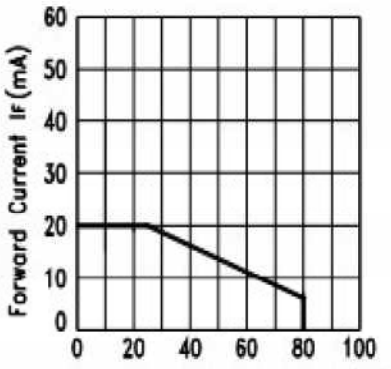

Fig.3 Forward Current Derating Curve

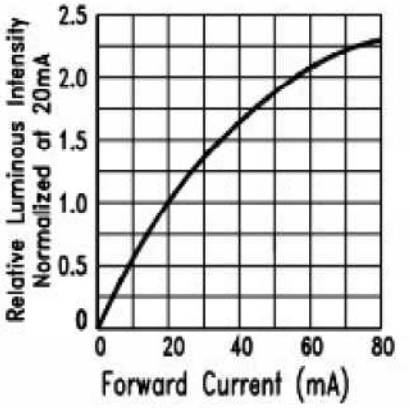

Fig.4 Relative Luminous Intensity vs. Forward Current

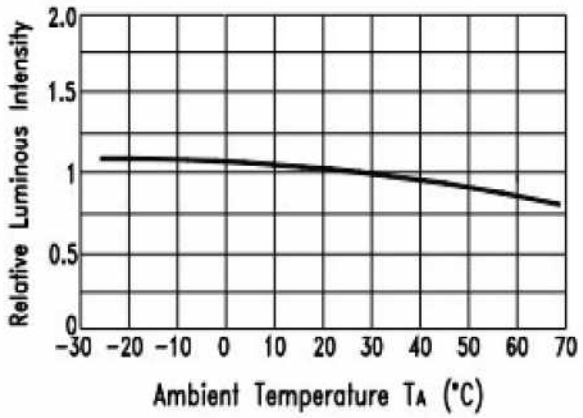

Fig.5 Luminous Intensity vs.Ambient Temperature

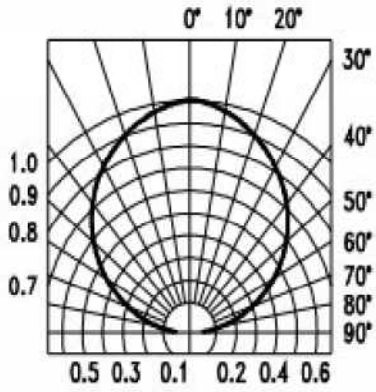

Fig.6 Spatial Distribution

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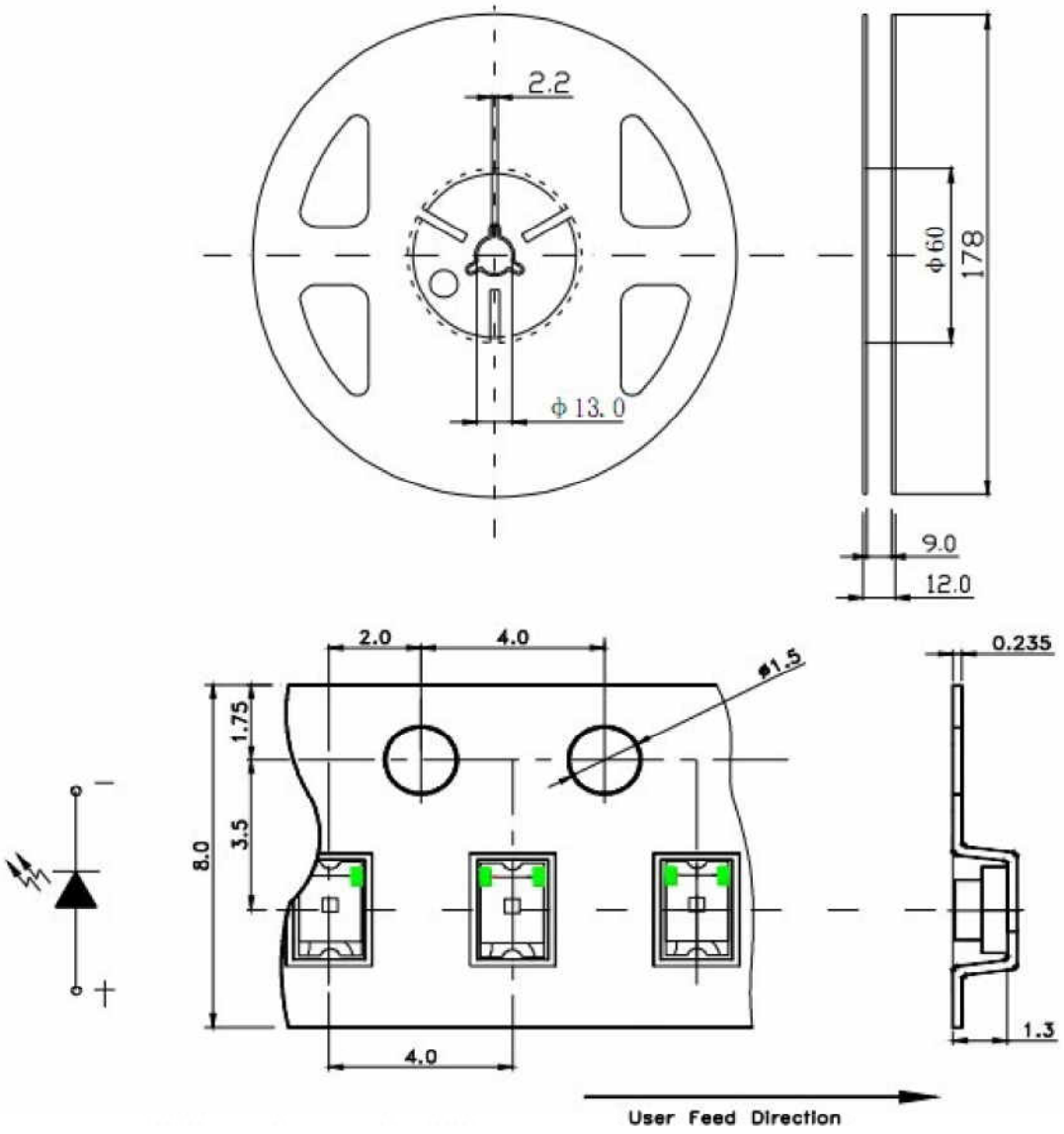
7.Reel And Tape Dimensions



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2. Tolerance is ± 0.1 mm unless otherwise noted.