World Trading Net GmbH & Co. KG
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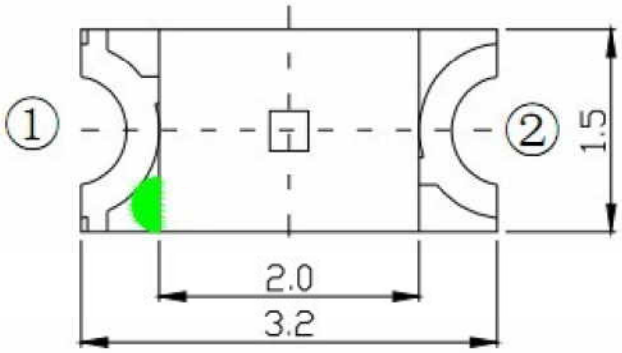
**SMD LED 1206**

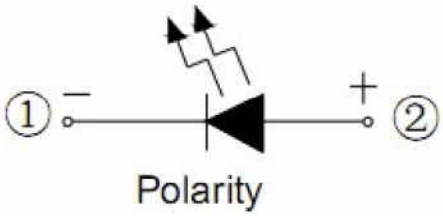
# 1. Features

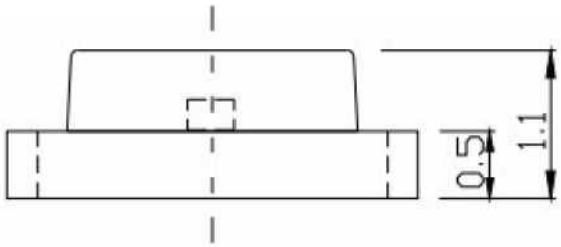
- Package ( L/W/H ) : 3.2 × 1.5 × 1.1 mm
- Color : Ultra Bright Warm White(3500K)
- Lens: Yellow Diffuse Flat Mold
- EIA STD Package
- Meet ROHS, Green Product
- Compatible With SMT Automatic Equipment
- Compatible With Infrared Reflow Solder And Wave Solder Process

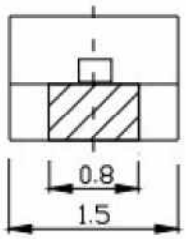
| Number | Part Number |
|---|---|
| 10x | 26006050 |
| 20x | 26006051 |
| 50x | 26006052 |
| 100x | 26006053 |
| 200x | 26006054 |

# 2. Package Profile & Soldering PAD Suggested

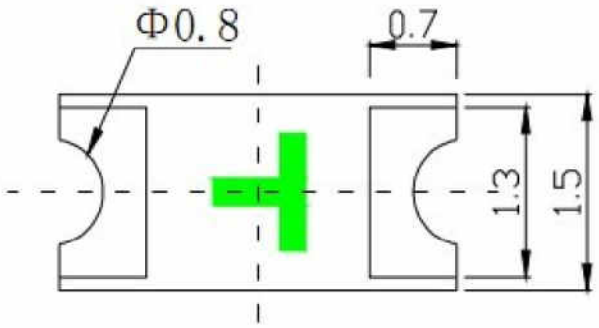


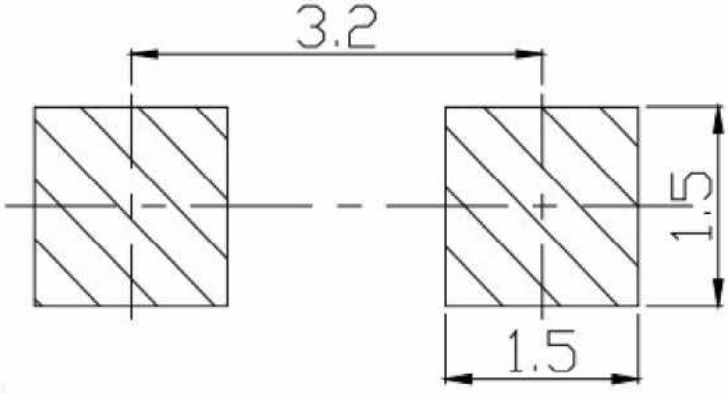




**Soldering PAD Suggested:**




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

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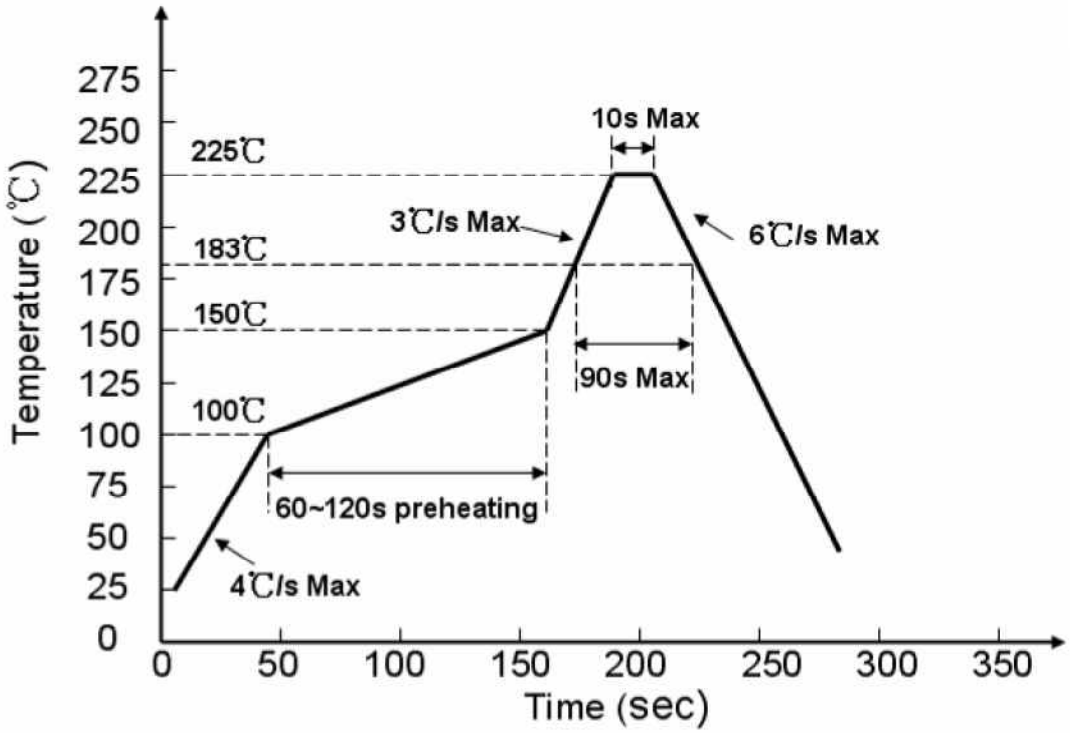
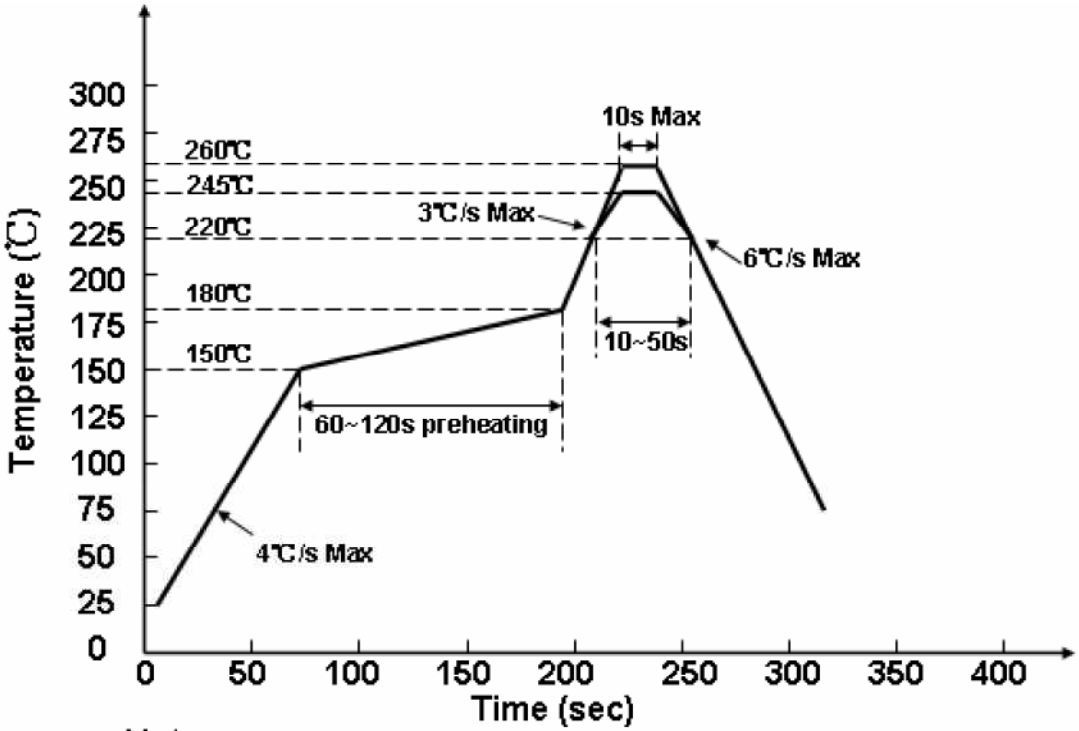
# 3. Soldering Profile Suggested

## 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<br>(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<br>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<br>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

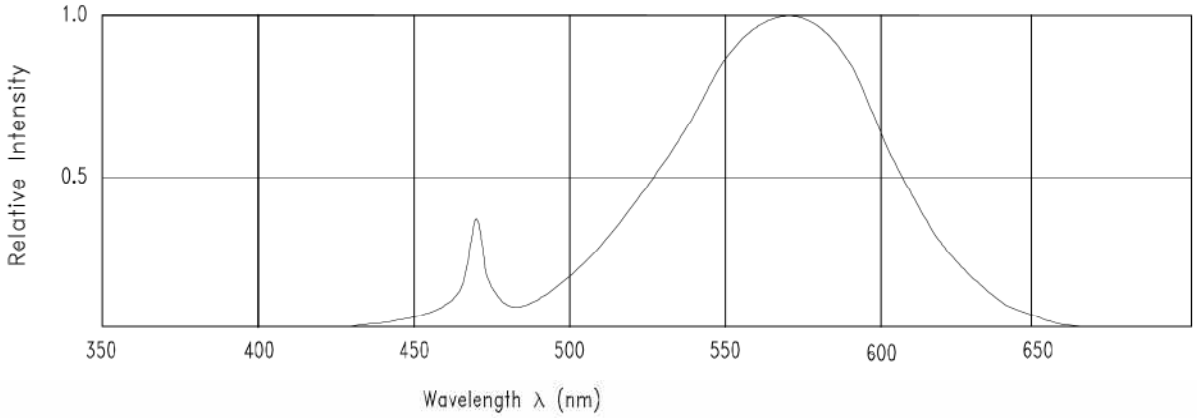


Fig.1 Relative Intensity vs. Wavelength

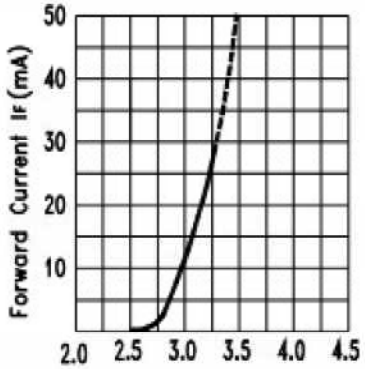


Fig.2 Forward Current vs. Forward Voltage

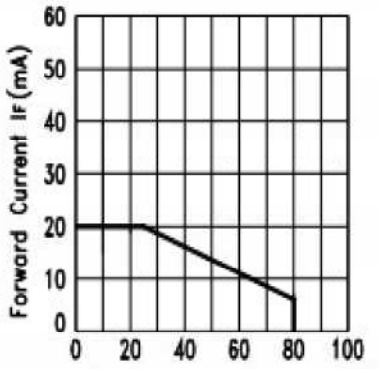


Fig.3 Forward Current Derating Curve

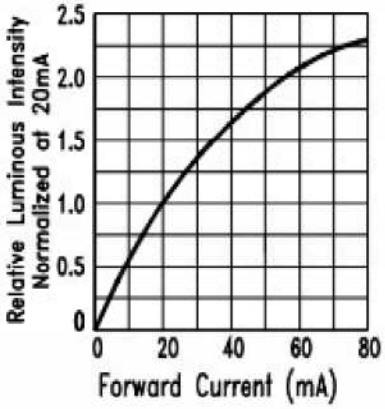


Fig.4 Relative Luminous Intensity vs. Forward Current

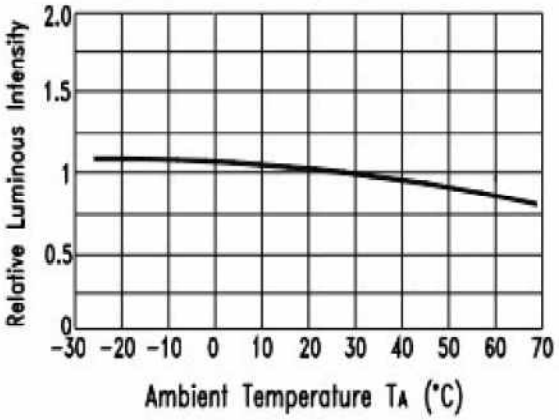


Fig.5 Luminous Intensity vs.Ambient Temperature

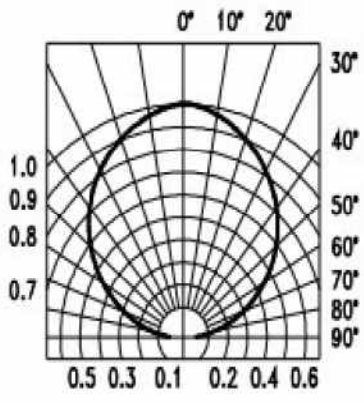


Fig.6 Spatial Distribution

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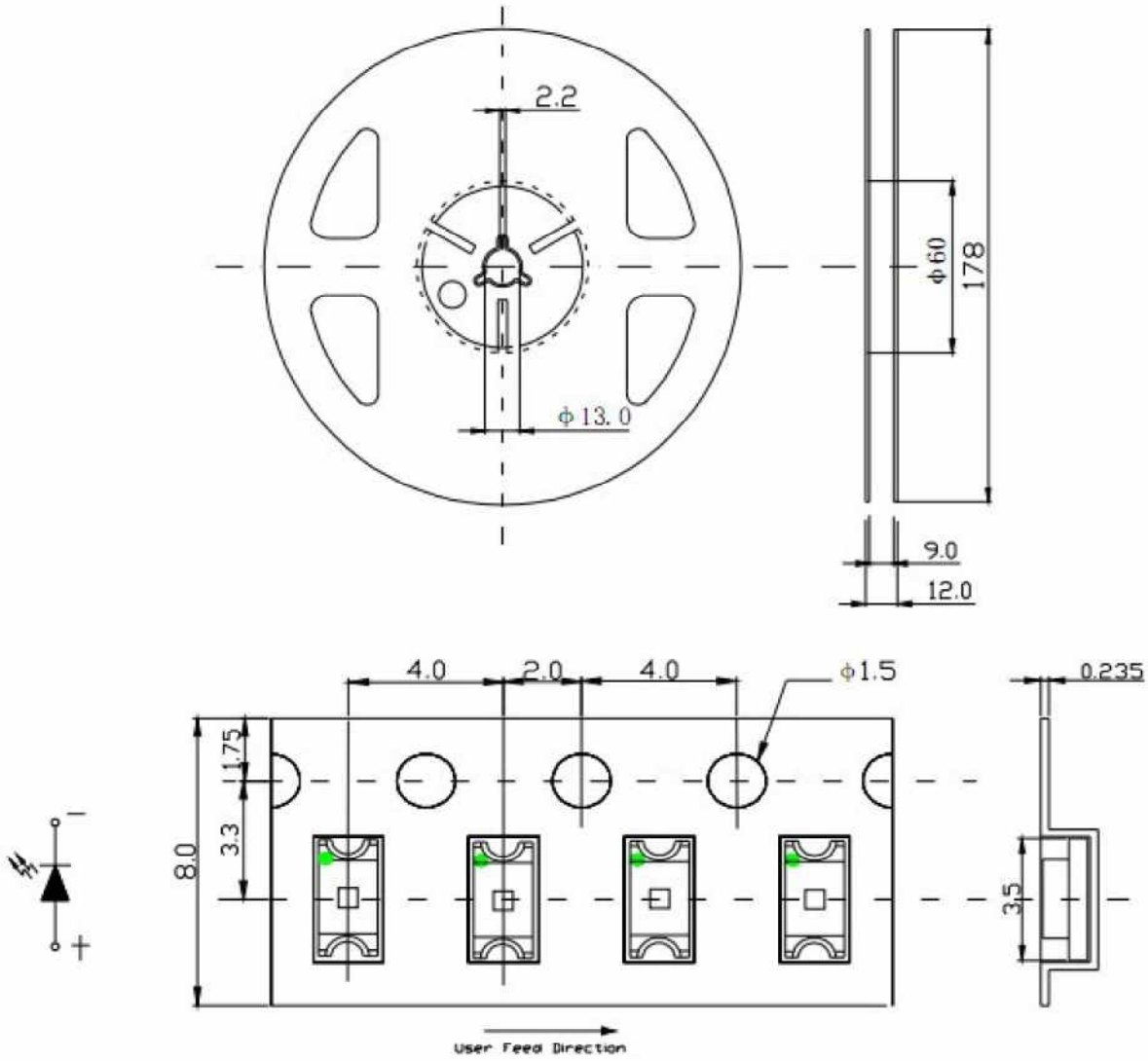
## 7.Reel And Tape Dimensions