

### Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 4,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant

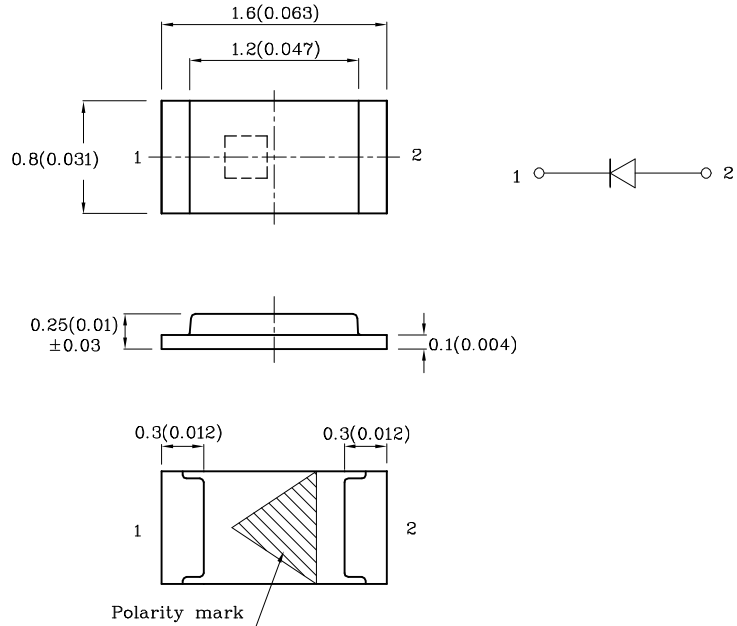


**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

### Applications

1. Mobile phone Keypad indicator and backlight
2. Flat backlight for LCD, switch and symbol
3. Toys

### Package Schematics



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.1(0.004") unless otherwise noted.
3. Specifications are subject to change without notice.

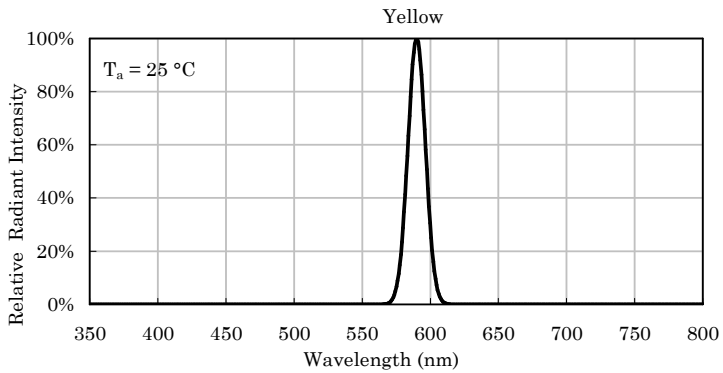
| Absolute Maximum Ratings<br>(T <sub>A</sub> =25°C)             |                  | Yellow<br>(AlGaInP) | Unit |
|--|------------------|---------------------|------|
| Reverse Voltage  | V <sub>R</sub>   | 5                   | V    |
| Forward Current  | I <sub>F</sub>   | 30                  | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | i <sub>FS</sub>  | 150                 | mA   |
| Power Dissipation  | P <sub>D</sub>   | 75                  | mW   |
| Operating Temperature  | T <sub>A</sub>   | -40 ~ +85           | °C   |
| Storage Temperature  | T <sub>stg</sub> | -40 ~ +85           |      |

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

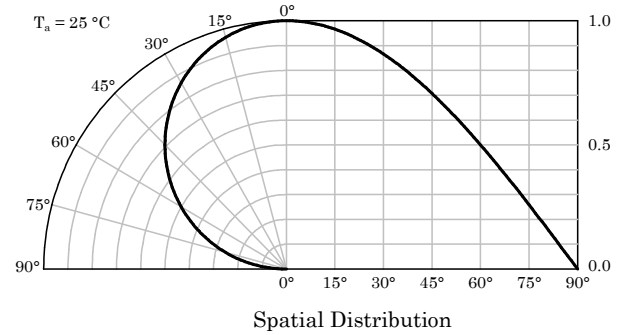
| Operating Characteristics<br>(T <sub>A</sub> =25°C)                             |                | Yellow<br>(AlGaInP) | Unit |
|---|----------------|---------------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =20mA)                                | V <sub>F</sub> | 2.05                | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =20mA)                                | V <sub>F</sub> | 2.5                 | V    |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                                  | I <sub>R</sub> | 10                  | µA   |
| Wavelength of Peak<br>Emission CIE127-2007*(Typ.)<br>(I <sub>F</sub> =20mA)     | λ <sub>P</sub> | 590*                | nm   |
| Wavelength of Dominant<br>Emission CIE127-2007*(Typ.)<br>(I <sub>F</sub> =20mA) | λ <sub>D</sub> | 590*                | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =20mA)    | Δλ             | 15                  | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                              | C              | 25                  | pF   |

| Part Number | Emitting Color | Emitting Material | Lens-color  | Luminous Intensity<br>CIE127-2007*<br>(I <sub>F</sub> =20mA)<br>mcd |      | Wavelength<br>CIE127-2007*<br>nm<br>λ <sub>P</sub> | Viewing Angle<br>2θ 1/2 |
|-------------|----------------|-------------------|-------------|---|------|--|-------------------------|
|             |                |                   |             | min.  | typ. |  |                         |
| XZMYKT53W-6 | Yellow         | AlGaInP           | Water Clear | 55*   | 118* | 590*   | 120°                    |

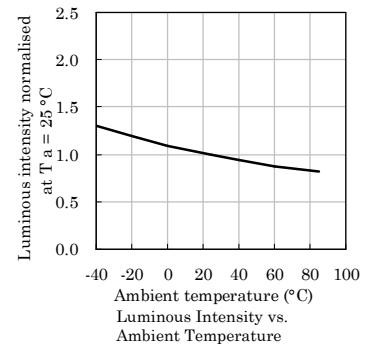
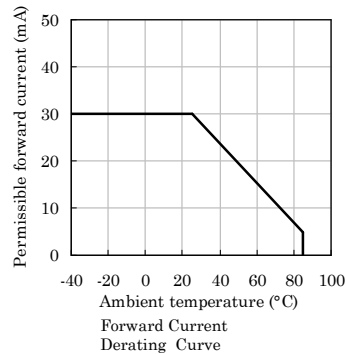
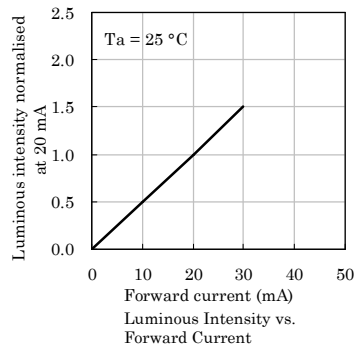
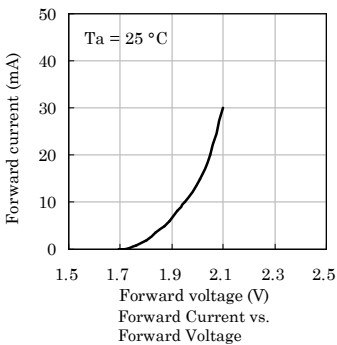
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



Relative Intensity Vs. CIE Wavelength

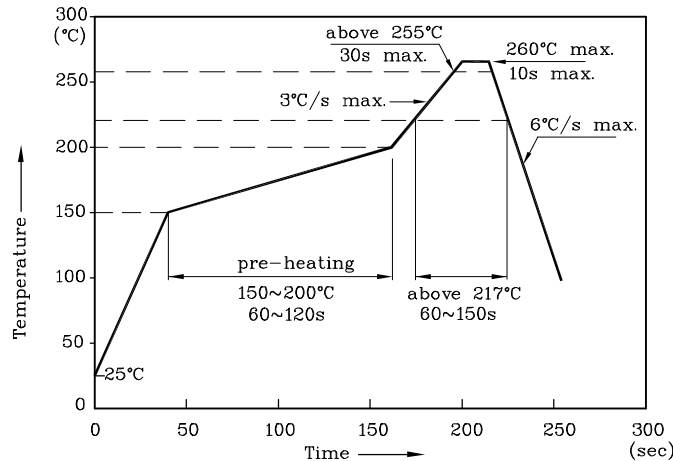


❖ Yellow



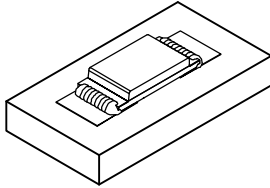
**LED is recommended for reflow soldering and soldering profile is shown below.**

Reflow Soldering Profile for SMD Products (Pb-Free Components)

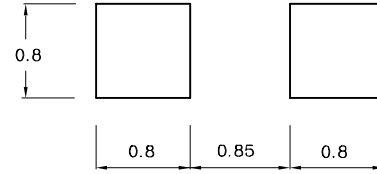


- Notes:
1. All temperatures refer to the center of the package, measured on the package body surface facing up during reflow.
  2. Do not apply any stress to the LED during high temperature conditions.
  3. Maximum number of soldering passes: 2

❖ The device has a single mounting surface.  
The device must be mounted according to the specifications.

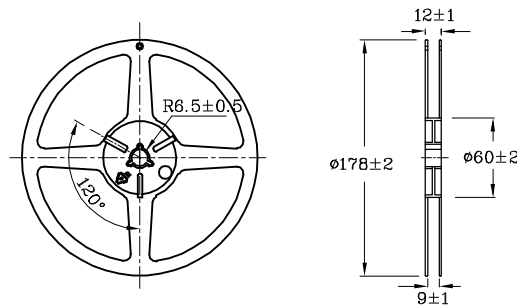


❖ Recommended Soldering Pattern  
(Units : mm; Tolerance: ± 0.1)

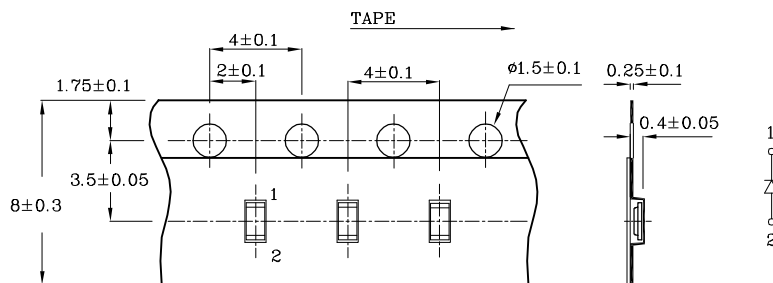


Mask open area ratio: 80%  
Mask thickness: 80~100um

❖ Reel Dimension (Units : mm)



❖ Tape Specification (Units : mm)



Remarks:

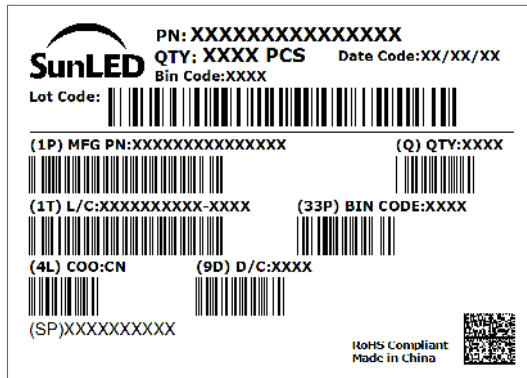
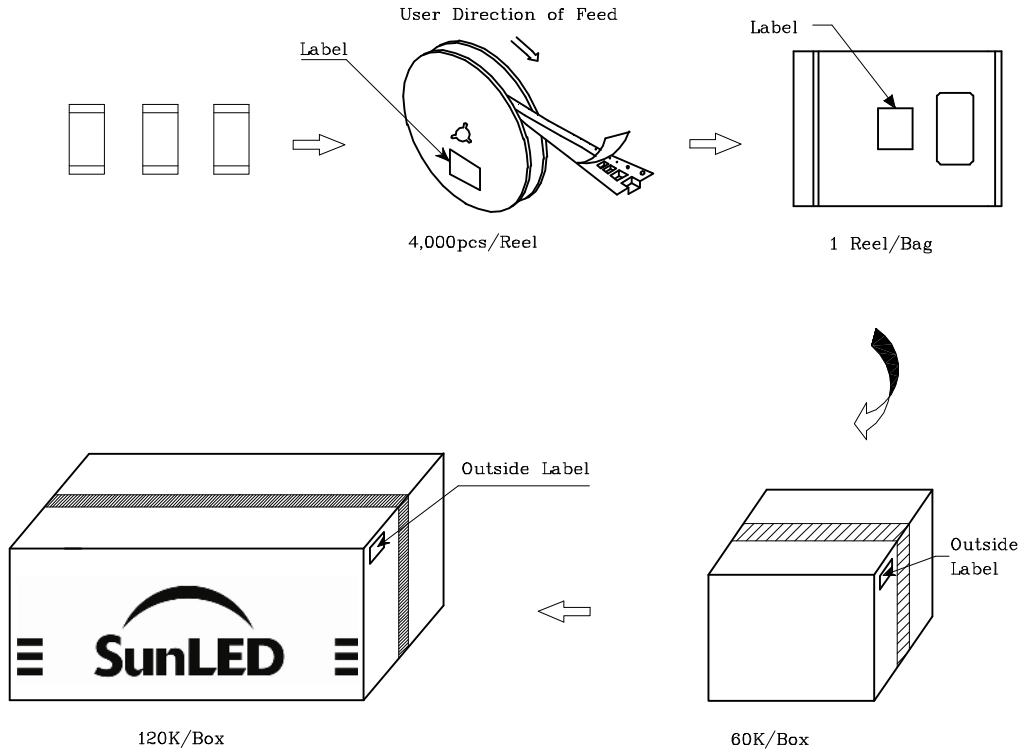
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



**PACKING & LABEL SPECIFICATIONS**



**TERMS OF USE**

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2. Contents within this document are subject to improvement and enhancement changes without notice.
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