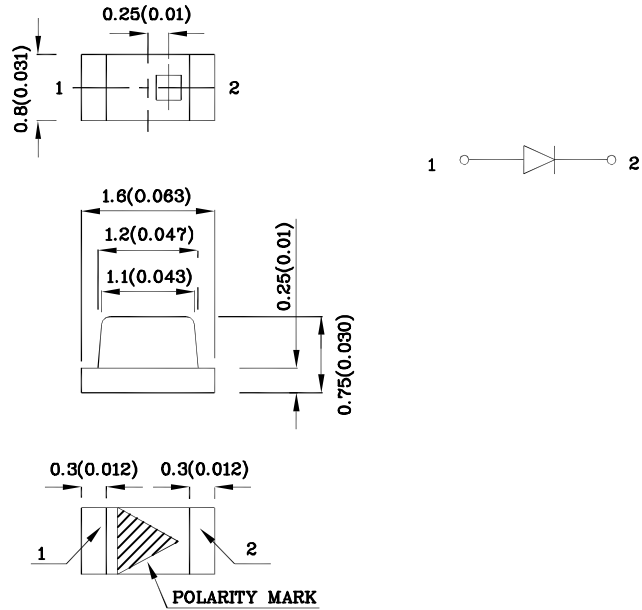


Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant



Package Schematics



Notes:

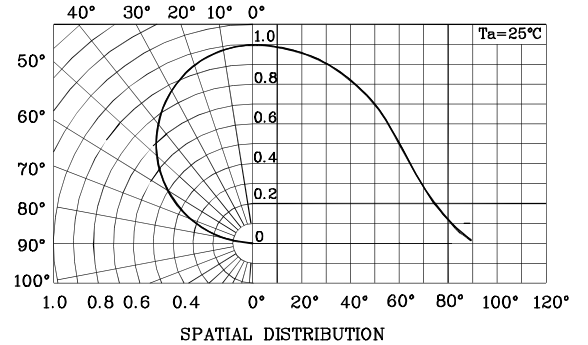
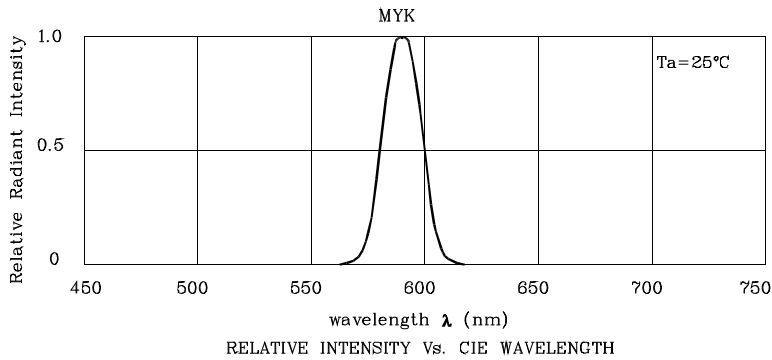
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004)$ " unless otherwise noted.
3. Specifications are subject to change without notice.

| Absolute Maximum Ratings ($T_A=25^\circ\text{C}$) | | MYK (AlGaInP) | Unit |
|--|-----------|------------------|------|
| Reverse Voltage | V_R | 5 | V |
| Forward Current | I_F | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i_{FS} | 175 | mA |
| Power Dissipation | P_D | 75 | mW |
| Operating Temperature | T_A | -40 ~ +85 | °C |
| Storage Temperature | T_{stg} | -40 ~ +85 | |

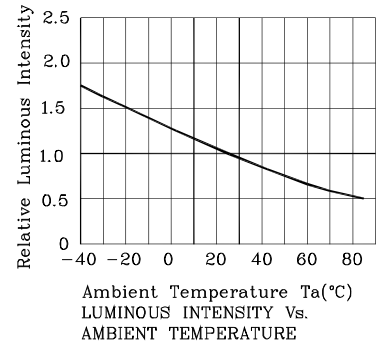
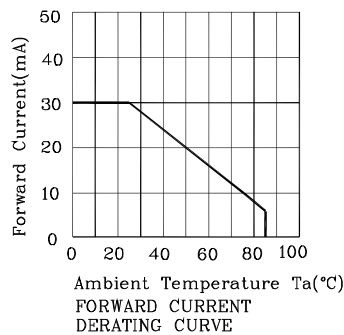
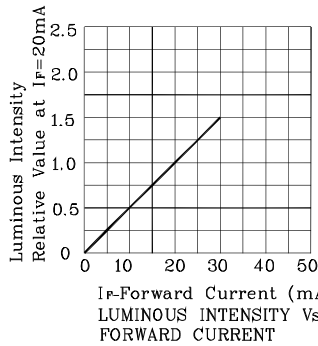
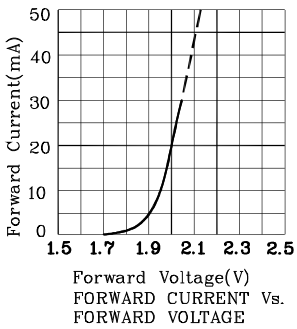
| Operating Characteristics ($T_A=25^\circ\text{C}$) | | MYK (AlGaInP) | Unit |
|---|-----------------|------------------|---------------|
| Forward Voltage (Typ.) ($I_F=20\text{mA}$) | V_F | 2 | V |
| Forward Voltage (Max.) ($I_F=20\text{mA}$) | V_F | 2.5 | V |
| Reverse Current (Max.) ($V_R=5\text{V}$) | I_R | 10 | μA |
| Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=20\text{mA}$) | λ_P | 590* | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) ($I_F=20\text{mA}$) | λ_D | 590* | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=20\text{mA}$) | $\Delta\lambda$ | 20 | nm |
| Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$) | C | 20 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity CIE127-2007* ($I_F=20\text{mA}$) | | Wavelength CIE127-2007* nm λ_P | Viewing Angle 2 θ 1/2 |
|-------------|----------------|-------------------|-------------|---|------|---|---------------------------------|
| | | | | min. | typ. | | |
| XZMYK53W-1 | Yellow | AlGaInP | Water Clear | 80* | 148* | 590* | 120° |

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



❖ MYK



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

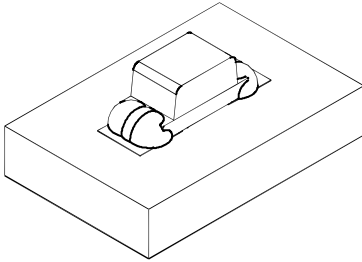
Reflow Soldering Profile for SMD Products (Pb-Free Components)



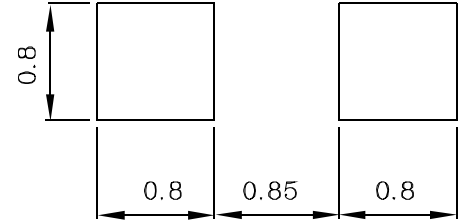
- Notes:
1. Maximum soldering temperature should not exceed 260°C
 2. Recommended reflow temperature: 145°C-260°C
 3. Do not put stress to the epoxy resin during high temperatures conditions



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



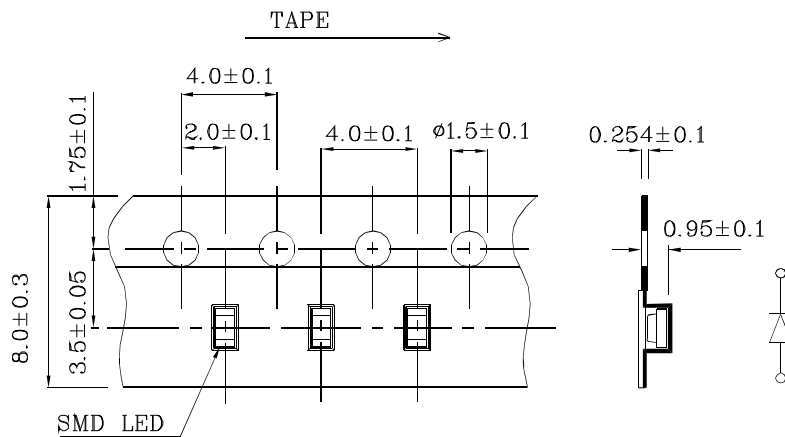
❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ Reel Dimension



❖ Tape Specification (Units : mm)



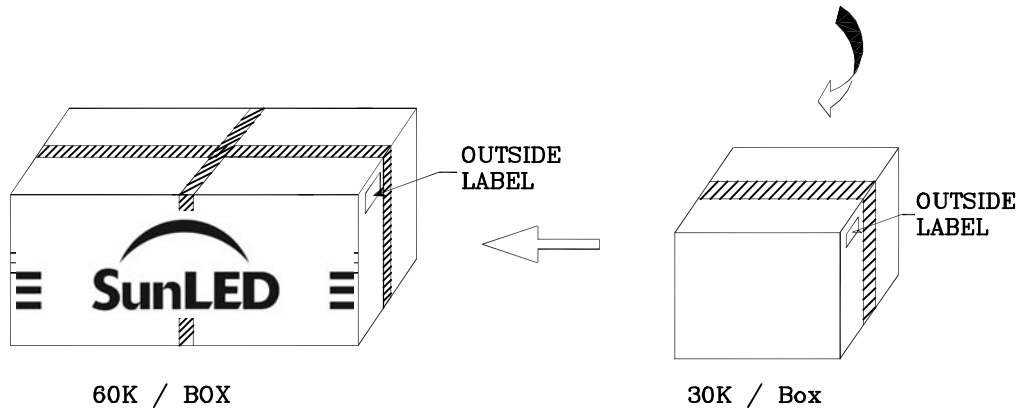
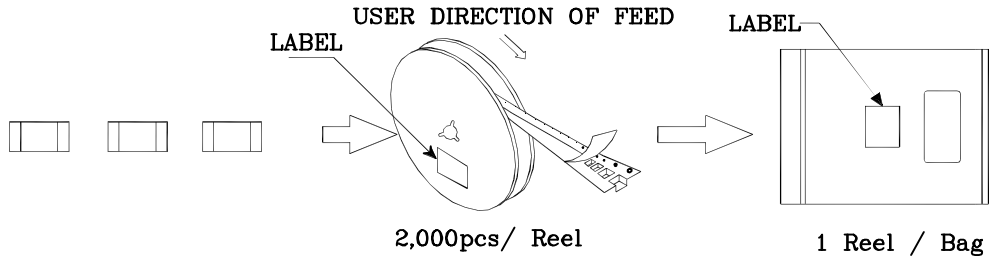
Remarks:


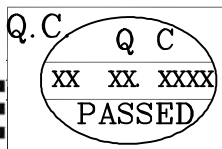

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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



| | | |
|--|--|--|
|  | |  |
| P/NO : XZxx53x-1 | | |
| QTY : 2,000 pcs | | CODE: XXX |
| S/N : XX | | |
| LOT NO: | | |
|  xxxxxxxxxxxxxxxxxxxxxxxx | | |
| RoHS Compliant | | |

TERMS OF USE

1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
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