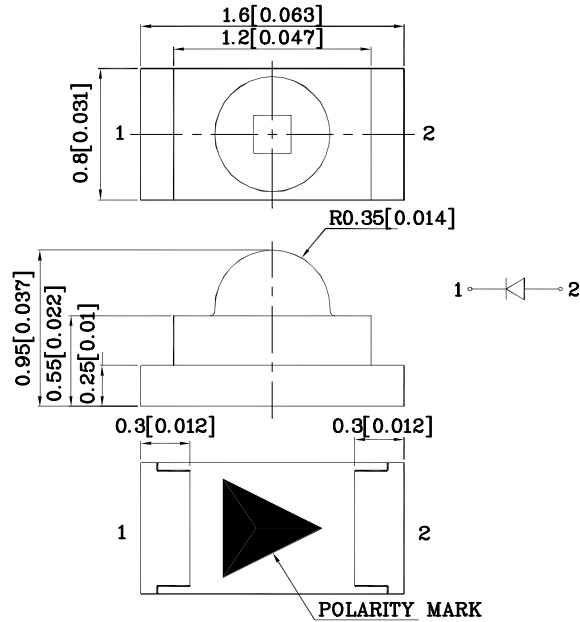


Features

- VersoLEDs: Versatile Solutions
- 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:

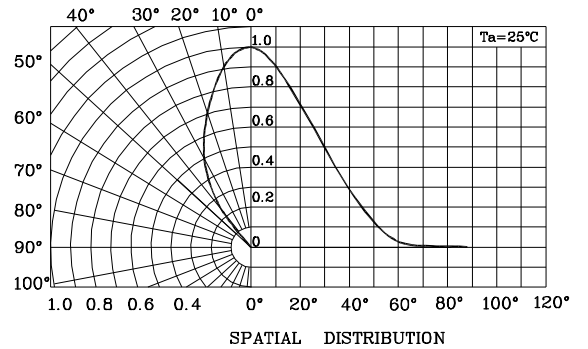
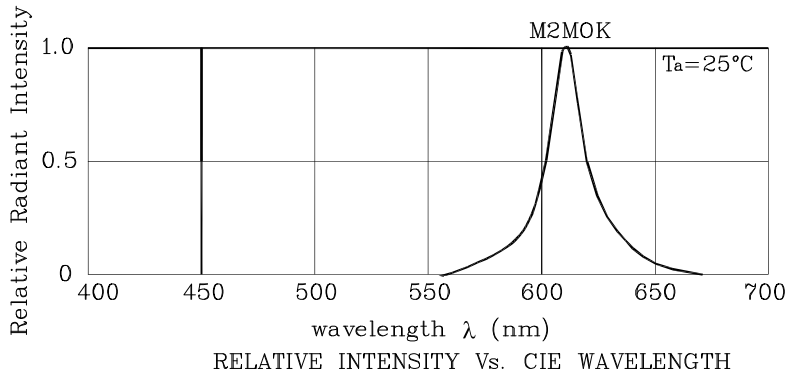
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.15 (0.006") unless otherwise noted.
3. Specifications are subject to change without notice.

| Absolute Maximum Ratings ($T_A=25^\circ\text{C}$) | | M2MOK (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} | 150 | mA |
| Power Dissipation | P_D | 84 | mW |
| Operating Temperature | T_A | -40 ~ +85 | °C |
| Storage Temperature | T_{stg} | -40 ~ +85 | |

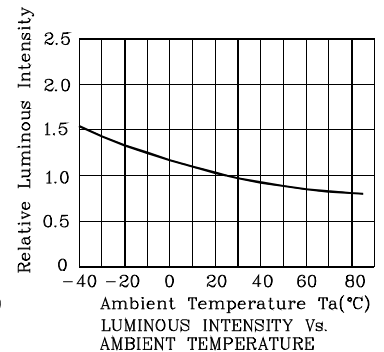
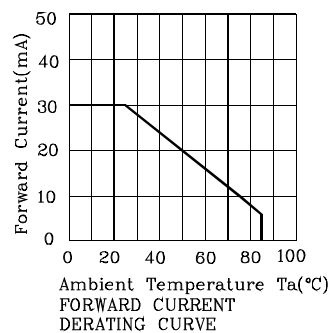
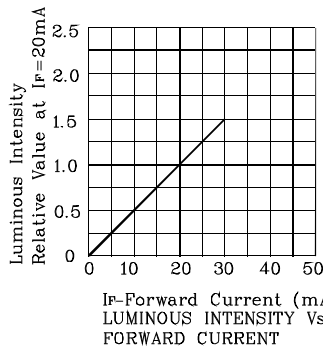
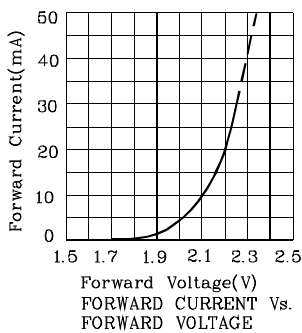
| Operating Characteristics ($T_A=25^\circ\text{C}$) | | M2MOK (AlGaInP) | Unit |
|---|-----------------|--------------------|---------------|
| Forward Voltage (Typ.) ($I_F=20\text{mA}$) | V_F | 2.2 | V |
| Forward Voltage (Max.) ($I_F=20\text{mA}$) | V_F | 2.8 | V |
| Reverse Current (Max.) ($V_R=5\text{V}$) | I_R | 10 | μA |
| Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=20\text{mA}$) | λ_P | 611* | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) ($I_F=20\text{mA}$) | λ_D | 605* | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=20\text{mA}$) | $\Delta\lambda$ | 17 | nm |
| Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$) | C | 27 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity CIE127-2007* ($I_F=20\text{mA}$) mcd | | Wavelength CIE127-2007* nm λ_P | Viewing Angle 20 1/2 |
|--------------|----------------|-------------------|-------------|--|---------------|---|----------------------------|
| | | | | min. | typ. | | |
| XZM2MOK53W-8 | Orange | AlGaInP | Water Clear | 3300 1000* | 4190 1590* | 611* | 60° |

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

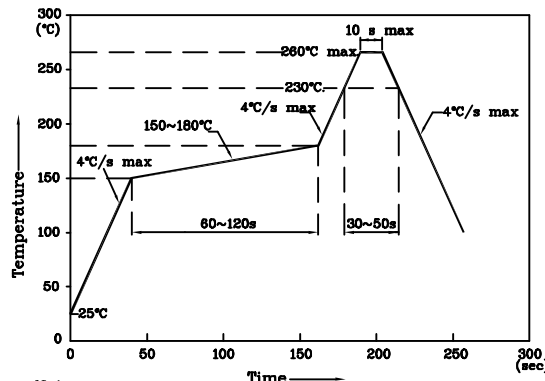


❖ M2MOK



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

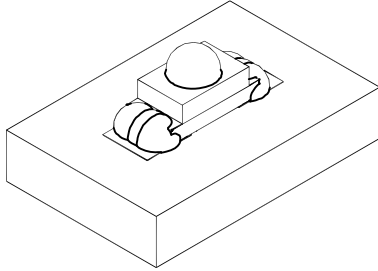
Reflow Soldering Profile for SMD Products (Pb-Free Components)



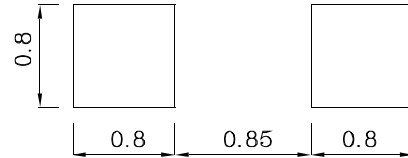
- Notes:
1. Maximum soldering temperature should not exceed 260°C
 2. Recommended reflow temperature: 145°C~260°C
 3. Do not put stress to the epoxy resin during high temperatures conditions



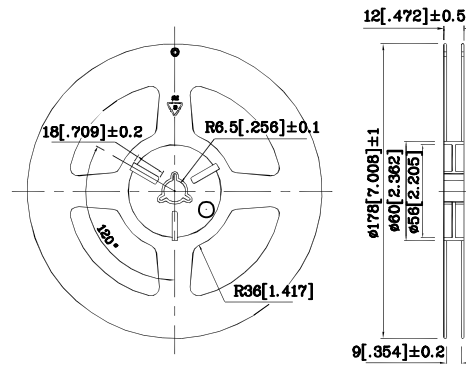
❖ The device has a single mounting surface.
The device must be mounted according to the specifications.



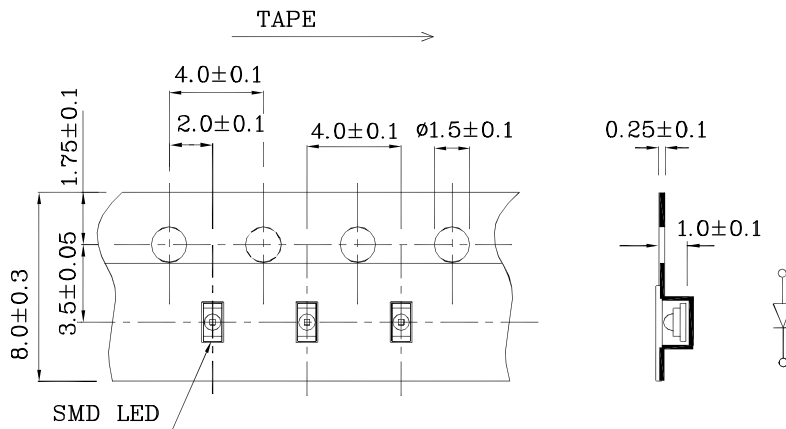
❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ 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: ± 1 nm
2. Luminous intensity / luminous flux: $\pm 15\%$
3. Forward Voltage: ± 0.1 V

Note: Accuracy may depend on the sorting parameters.

