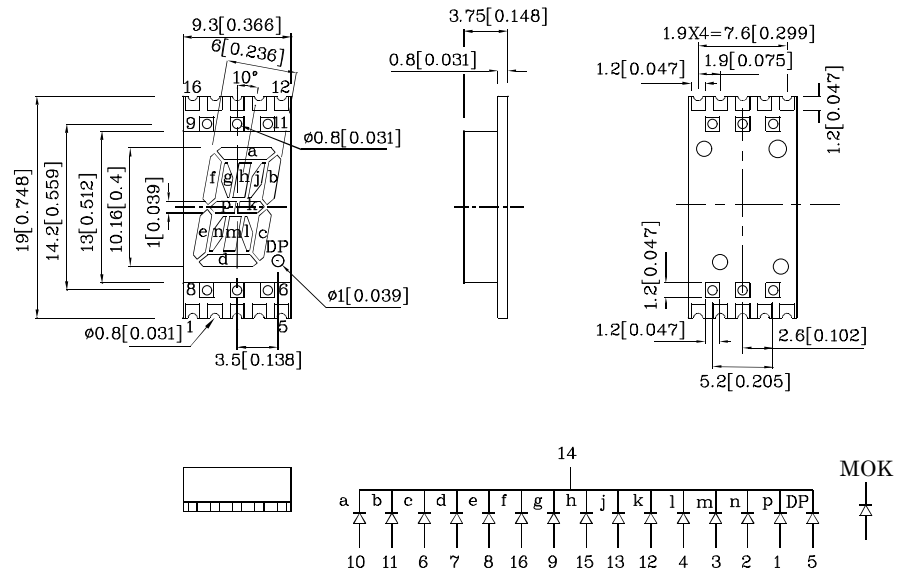


## Features

- 0.4 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Package: 400pcs/Reel
- Moisture sensitivity level: level 2a
- RoHS Compliant



## Package Schematics



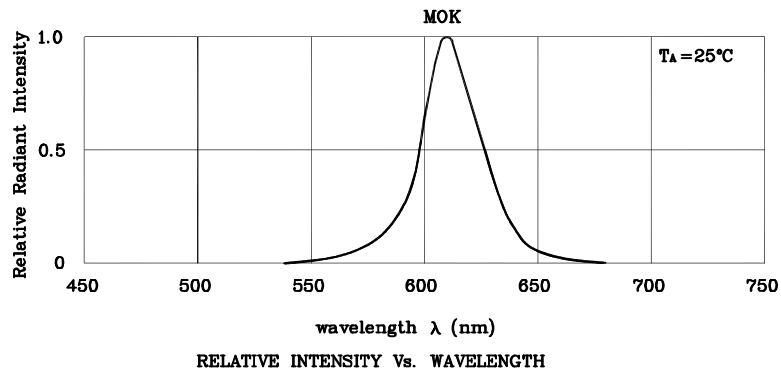
## Notes:

1. All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25(0.01)$ "unless otherwise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

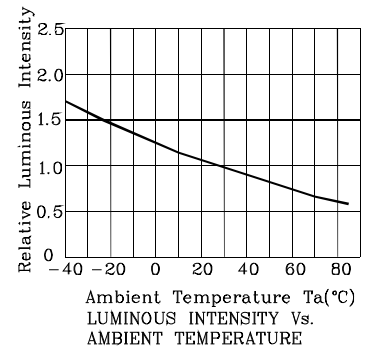
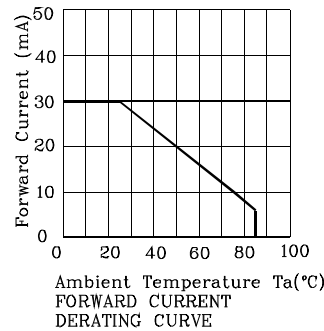
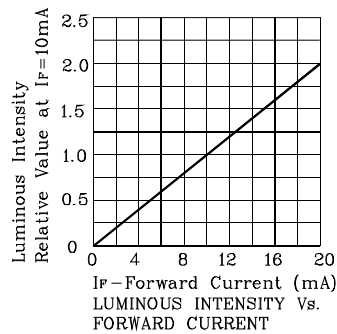
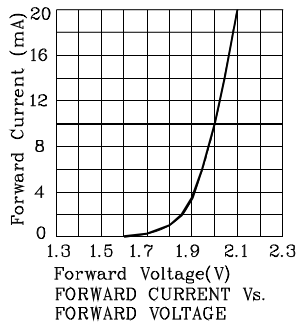
| Absolute Maximum Ratings<br>(T <sub>A</sub> =25°C)             |                  | MOK<br>(AlGaInP) | Unit |
|----------------------------------------------------------------|------------------|------------------|------|
| Reverse Voltage                                                | V <sub>R</sub>   | 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>  | 195              | 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        |      |

| Operating Characteristics<br>(T <sub>A</sub> =25°C)                          |                | MOK<br>(AlGaInP) | Unit |
|------------------------------------------------------------------------------|----------------|------------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)                             | V <sub>F</sub> | 2                | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =10mA)                             | V <sub>F</sub> | 2.5              | V    |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                               | I <sub>R</sub> | 10               | uA   |
| Wavelength of Peak<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)              | λP             | 610              | nm   |
| Wavelength of Dominant<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)          | λD             | 601              | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA) | △λ             | 29               | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                           | C              | 15               | pF   |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity (I <sub>F</sub> =10mA)<br>ucd |       | Wavelength<br>nm<br>λP | Description                       |
|-------------|----------------|-------------------|--------------------------------------------------|-------|------------------------|-----------------------------------|
|             |                |                   | min.                                             | typ.  |                        |                                   |
| XZFAMOK10C  | Orange         | AlGaInP           | 21000                                            | 43990 | 610                    | Common Cathode, Rt. Hand Decimal. |

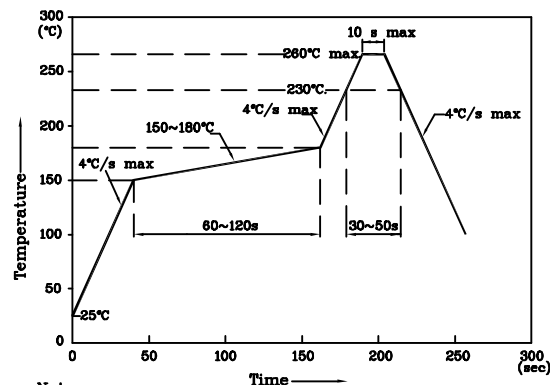


❖ **MOK**



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

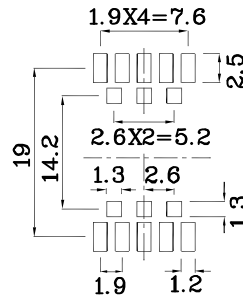
**Reflow Soldering Profile for SMD Products (Pb-Free Components)**



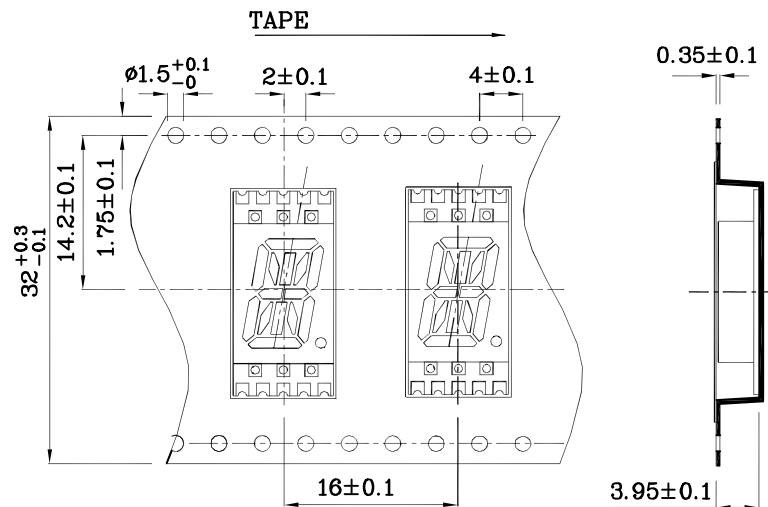
**Notes:**

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

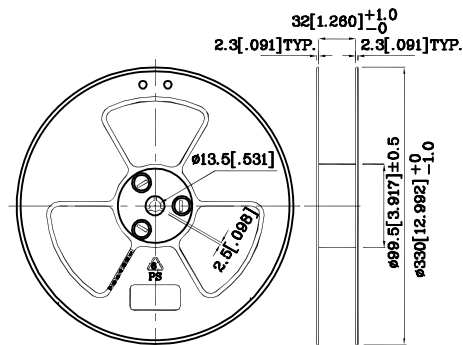
❖ Recommended Soldering Pattern (Units : mm; Tolerance:  $\pm 0.15$ )



❖ Tape Specification (Units : mm)



❖ Reel Dimension



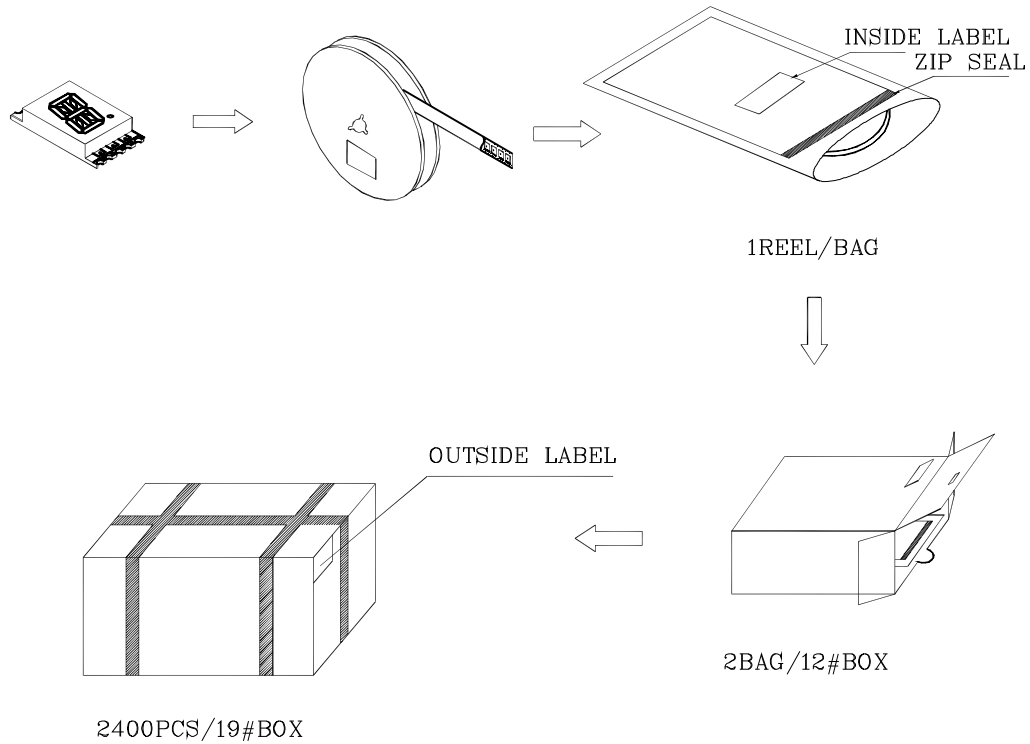
Remarks:

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:

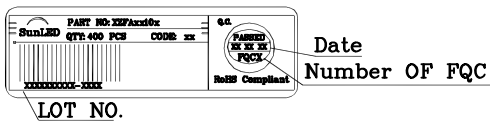
1. Wavelength:  $\pm 1\text{nm}$
2. Luminous intensity / luminous flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

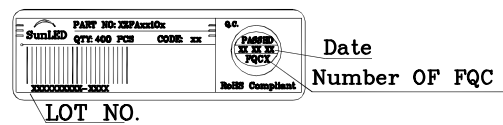
## PACKING & LABEL SPECIFICATIONS



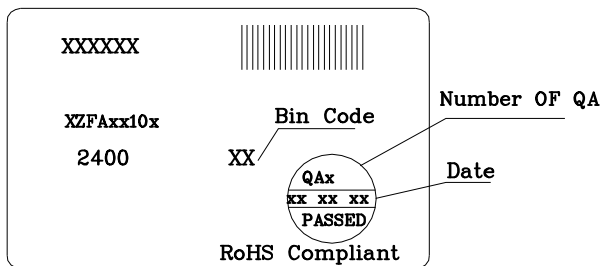
Inside Label On tape



Outside Label On BAG



Outside Label On 19#Box



Outside Label On 12#Box

