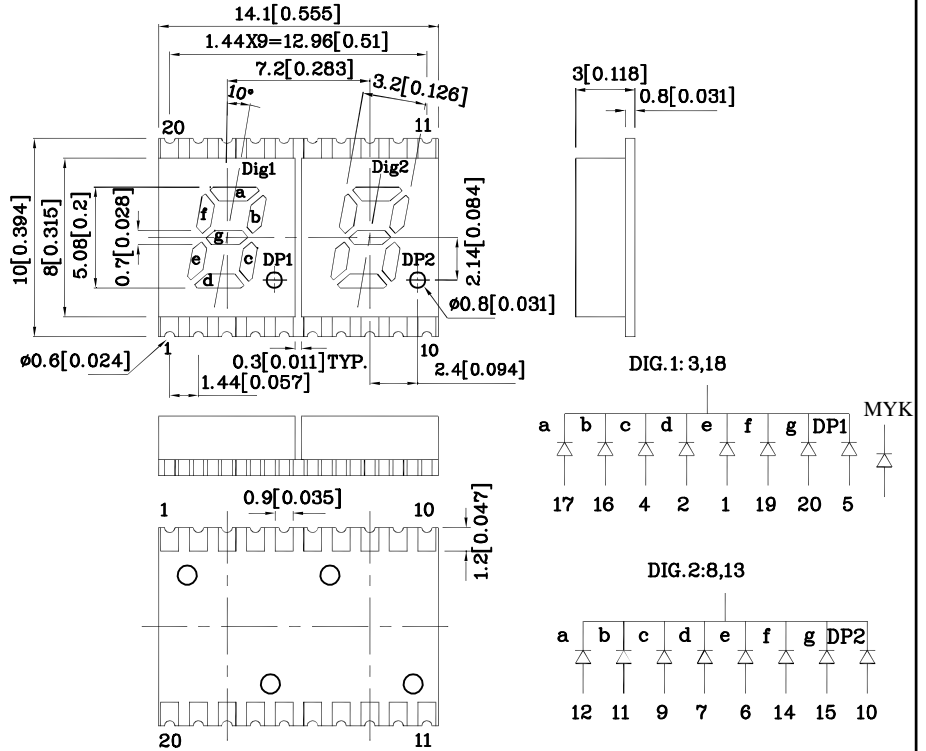


**Features**

- 0.2 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 300pcs/ Reel
- MSL (Moisture Sensitivity Level): 2a
- RoHS Compliant



**Package Schematics**



**Notes:**

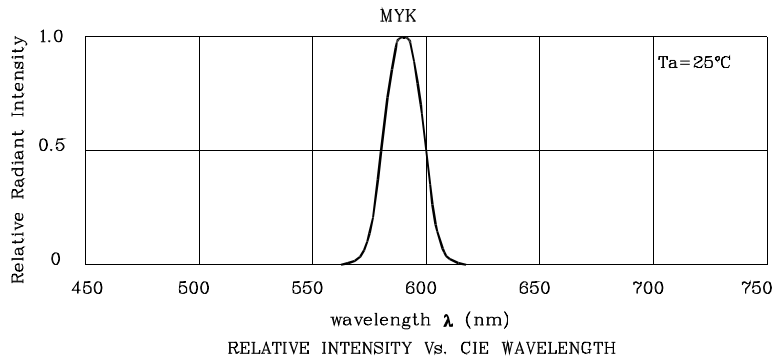
1. All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

| Absolute Maximum Ratings<br>( $T_A=25^\circ\text{C}$ )         |           | MYK<br>(AlGaInP) | Unit |
|--|-----------|------------------|------|
| Reverse Voltage  | $V_R$     | 5                | V    |
| Forward Current  | $I_F$     | 30               | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>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        |      |

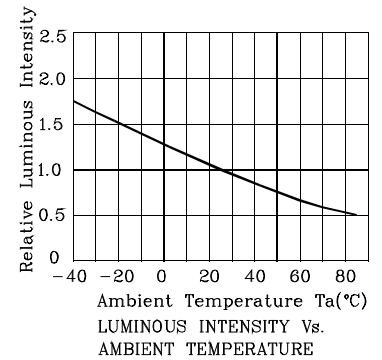
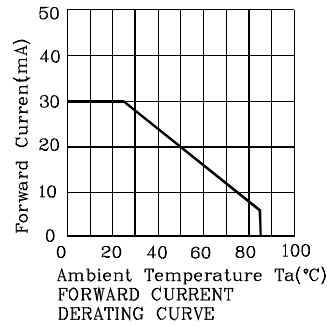
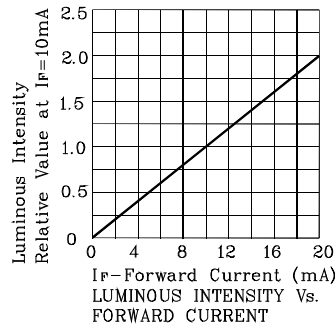
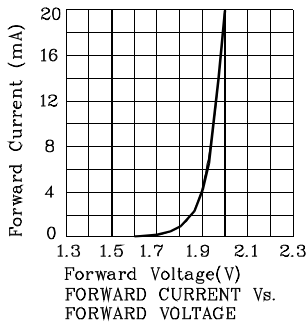
| Operating Characteristics<br>( $T_A=25^\circ\text{C}$ )                         |                 | MYK<br>(AlGaInP) | Unit          |
|---|-----------------|------------------|---------------|
| Forward Voltage (Typ.)<br>( $I_F=10\text{mA}$ )                                 | $V_F$           | 1.95             | V             |
| Forward Voltage (Max.)<br>( $I_F=10\text{mA}$ )                                 | $V_F$           | 2.5              | V             |
| Reverse Current (Max.)<br>( $V_R=5\text{V}$ )                                   | $I_R$           | 10               | $\mu\text{A}$ |
| Wavelength of Peak<br>Emission CIE127-2007* (Typ.)<br>( $I_F=10\text{mA}$ )     | $\lambda_P$     | 590*             | nm            |
| Wavelength of Dominant<br>Emission CIE127-2007* (Typ.)<br>( $I_F=10\text{mA}$ ) | $\lambda_D$     | 590*             | nm            |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>( $I_F=10\text{mA}$ )     | $\Delta\lambda$ | 20               | nm            |
| Capacitance (Typ.)<br>( $V_F=0\text{V}$ , $f=1\text{MHz}$ )                     | C               | 20               | pF            |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity<br>CIE127-2007*<br>( $I_F=10\text{mA}$ ) ucd |                 | Wavelength<br>CIE127-2007*<br>nm $\lambda_P$ | Description                         |
|-------------|----------------|-------------------|---|-----------------|--|-------------------------------------|
|             |                |                   | min.  | typ.            |  |                                     |
| XZFMYK05C2  | Yellow         | AlGaInP           | 21000<br>5600*  | 49990<br>14990* | 590*   | Common Cathode,<br>Rt.Hand Decimal. |

\*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)**

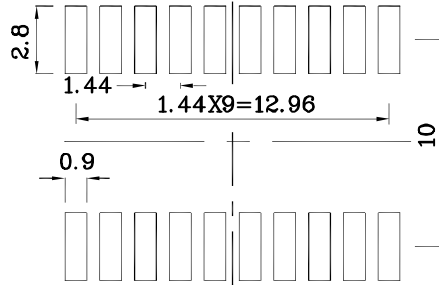


**Notes:**

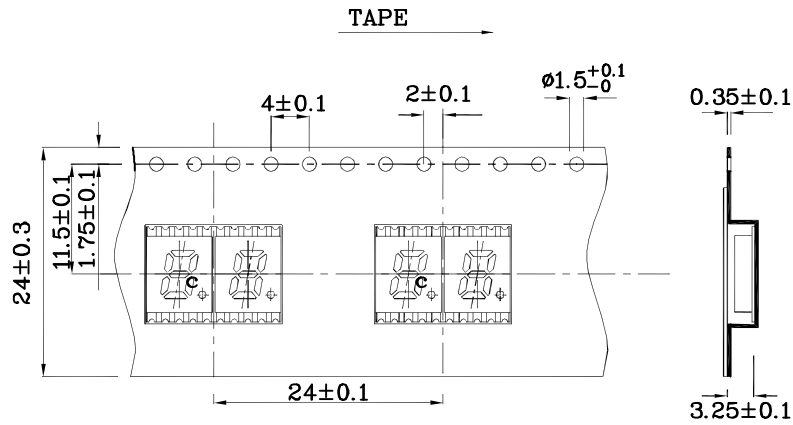
1. Maximum soldering temperature should not exceed 260°C
2. Recommended reflow temperature: 145°C-260°C
3. Do not put stress to the epoxy resin during high temperatures conditions



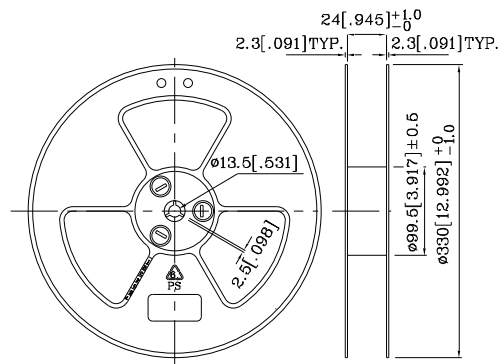
❖ Recommended Soldering Pattern (Units : mm; Tolerance:  $\pm 0.15$ )



❖ Tape Specification (Units : mm)



❖ Reel Dimension



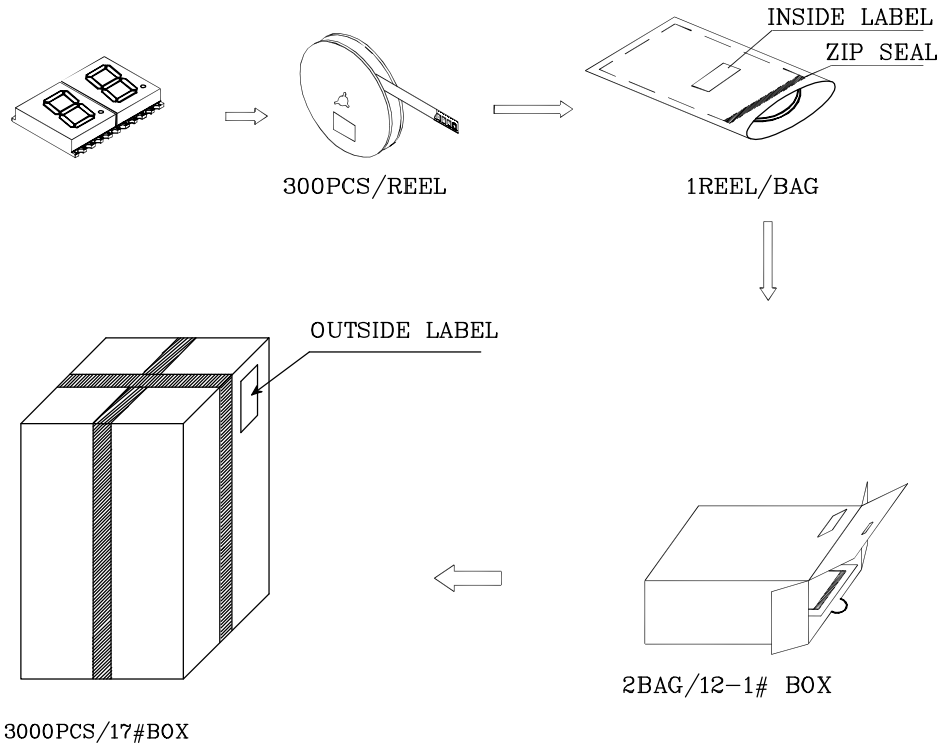
Remarks:

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:

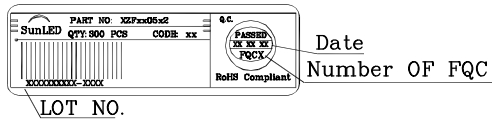
1. Wavelength:  $\pm 1$ nm
2. Luminous intensity / luminous flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1$ V

Note: Accuracy may depend on the sorting parameters.

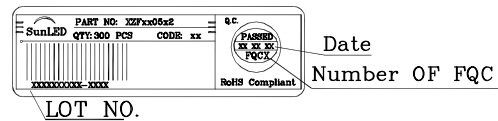
PACKING & LABEL SPECIFICATIONS



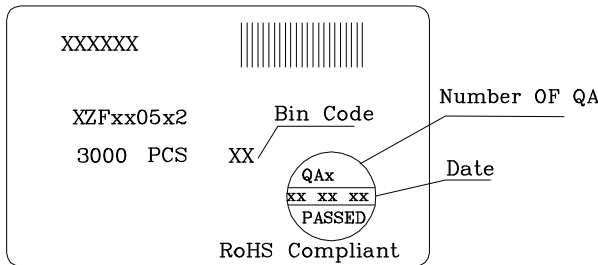
Inside Label On TAPE



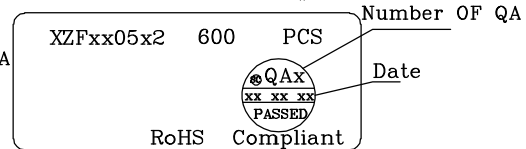
Outside Label On BAG



Outside Label On 19#Box



Outside Label On 12#Box



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