

## Part Number: ZMYK45WT

3.5x2.8mm PLCC2 SMD LED

# **Features**

• Ideal for indication light on hand held products

- Long life and robust package
- Standard Package: 2000pcs/ Reel
- MSL (Moisture Sensitivity Level): 4
- RoHS compliant



| Package Schematics   |       |
|--|-------|
| 3.5[0.138]±0.2   |       |
| 3.2[0.126]±0.2   |       |
| 2.8[0.11]±0.2<br>2.2[0.087]  | 2 ~01 |
| POLARITY MARK  |       |
| Notes:   |       |
|  |       |
| <ol> <li>All dimensions are in millimeters (inches).</li> <li>Tolerance is ±0.25(0.01") unless otherwise noted.</li> </ol> |       |
| 2. Toterance is ±0.25(0.01) unless otherwise noted.  |       |

3. Specifications are subject to change without notice.

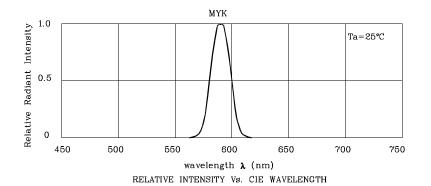
| Absolute Maximum Ratings<br>(T <sub>A</sub> =25°C)             |                  | MYK<br>(AlGaInP) | Unit |  |
|--|------------------|------------------|------|--|
| Reverse Voltage  | $V_{\mathrm{R}}$ | 5                | V    |  |
| Forward Current  | $I_{\rm F}$      | 30               | mA   |  |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | $i_{\rm FS}$     | 175              | mA   |  |
| Power Dissipation  | PD               | 75               | mW   |  |
| Operating Temperature  | $T_{\rm A}$      | -40 ~ +85        | °C   |  |
| Storage Temperature  | Tstg             | -40 ~ +85        | C    |  |

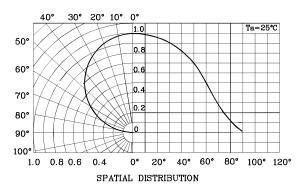
| Operating Characteristics<br>(T <sub>A</sub> =25°C)                              | MYK<br>(AlGaInP)   | Unit |             |
|--|--------------------|------|-------------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =20mA)                                 | $V_{\mathrm{F}}$   | 2    | V           |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =20mA)                                 | $V_{\mathrm{F}}$   | 2.5  | V           |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                                   | $I_R$              | 10   | uA          |
| Wavelength of Peak<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =20mA)     | λP                 | 590* | nm          |
| Wavelength of Dominant<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =20mA) | λD                 | 590* | nm          |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =20mA)     | $	riangle \lambda$ | 20   | nm          |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                               | С                  | 20   | $_{\rm pF}$ |

| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Lens-color  | Luminous Intensity<br>CIE127-2007*<br>(I <sub>F</sub> =20mA)<br>mcd |      | Wavelength<br>CIE127-2007*<br>nm<br>λP | Viewing<br>Angle<br>20 1/2 |
|----------------|-------------------|----------------------|-------------|---|------|--|----------------------------|
|                |                   |                      |             | min.  | typ. |  |                            |
| ZMYK45WT       | Yellow            | AlGaInP              | Water Clear | 80*   | 198* | 590*                                   | 120°                       |

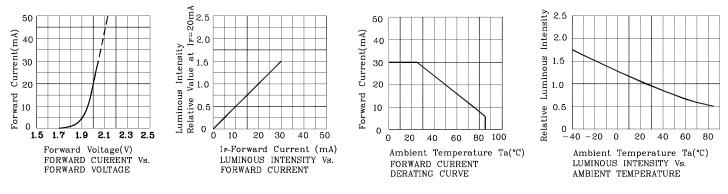
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



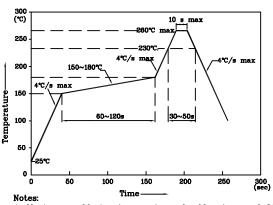




#### ♦ MYK



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



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

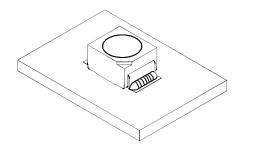
1. Maximum soldering temperature should not exceed 260°C

2. Recommended reflow temperature: 145°C-260°C Do not put stress to the epoxy resin during

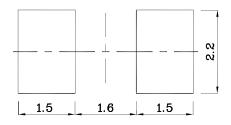
З. high temperatures conditions



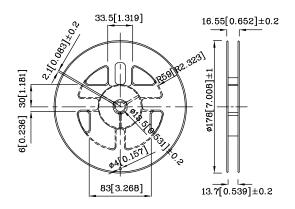
✤ The device has a single mounting surface. The device must be mounted according to the specifications.



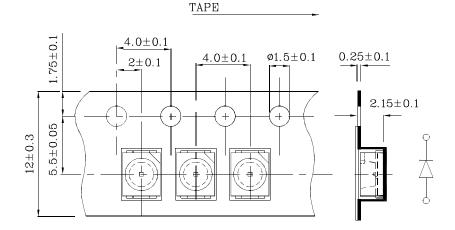
### Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



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%

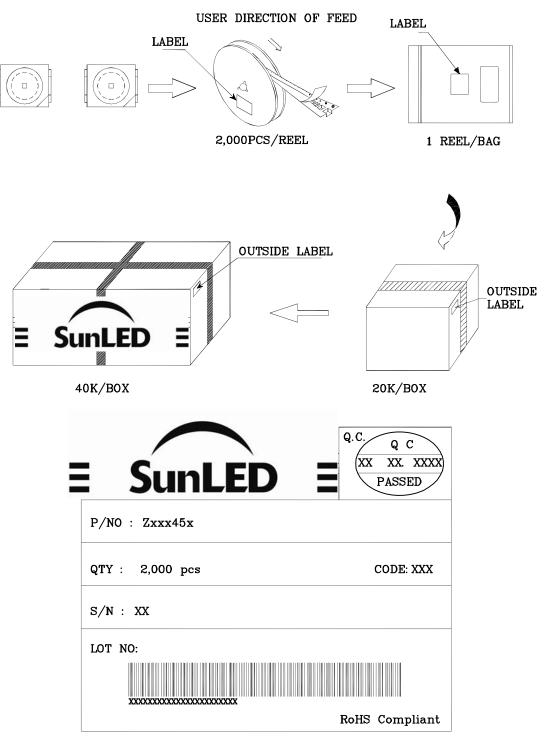
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

Feb 22,2014



## **PACKING & LABEL SPECIFICATIONS**



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