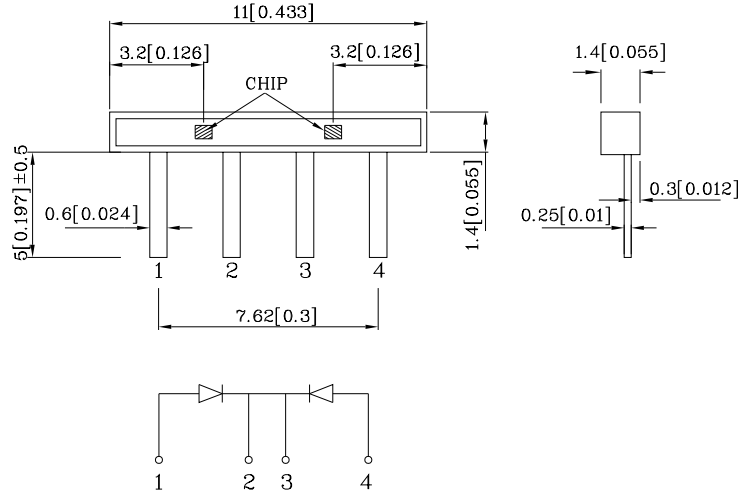


PRELIMINARY SPEC

**Features**

- LOW POWER CONSUMPTION.
- IDEAL FOR BACKLIGHTING.
- RoHS COMPLIANT.



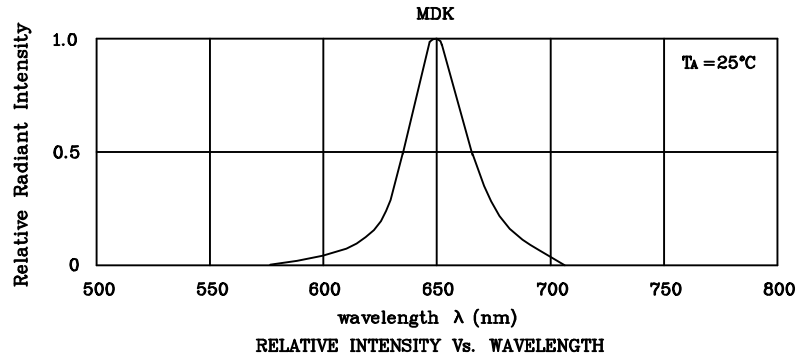
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Specifications are subject to change without notice.

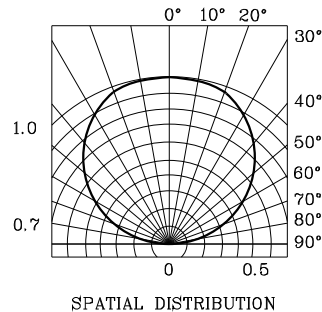
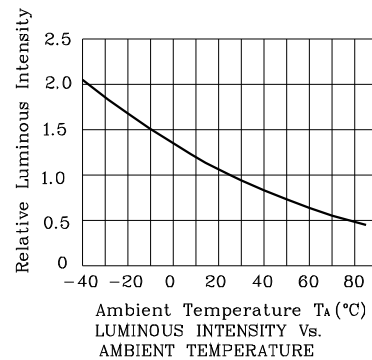
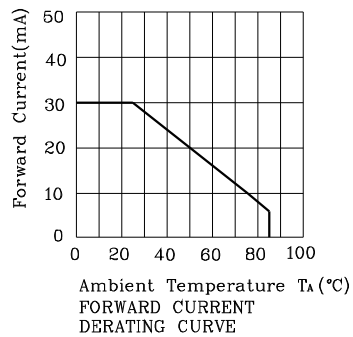
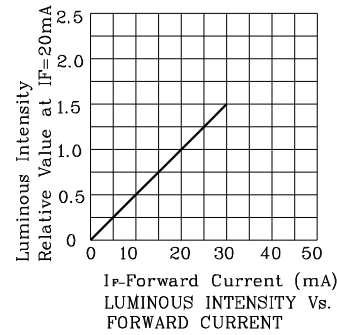
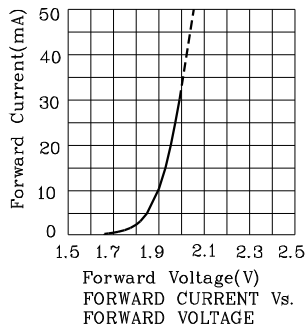
| Absolute Maximum Ratings<br>(TA=25°C)                          |      | MDK<br>(InGaAlP)    | Unit |
|--|------|---------------------|------|
| Reverse Voltage  | VR   | 5                   | V    |
| Forward Current  | IF   | 30                  | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | iFS  | 185                 | mA   |
| Power Dissipation  | PT   | 75                  | mW   |
| Operating Temperature  | TA   | -40 ~ +85           | °C   |
| Storage Temperature  | Tstg | -40 ~ +85           |      |
| Lead Solder Temperature<br>[2mm Below Package Base]            |      | 260°C For 3 Seconds |      |
| Lead Solder Temperature<br>[5mm Below Package Base]            |      | 260°C For 5 Seconds |      |

| Operating Characteristics<br>(TA=25°C)                       |                 | MDK<br>(InGaAlP) | Unit |
|--|-----------------|------------------|------|
| Forward Voltage (Typ.)<br>(IF=20mA)                          | VF              | 1.95             | V    |
| Forward Voltage (Max.)<br>(IF=20mA)                          | VF              | 2.5              | V    |
| Reverse Current (Max.)<br>(VR=5V)                            | IR              | 10               | uA   |
| Wavelength of Peak Emission (Typ.)<br>(IF=20mA)              | $\lambda P$     | 650              | nm   |
| Wavelength of Dominant Emission (Typ.)<br>(IF=20mA)          | $\lambda D$     | 635              | nm   |
| Spectral Line Full Width At Half-Maximum (Typ.)<br>(IF=20mA) | $\Delta\lambda$ | 28               | nm   |
| Capacitance (Typ.)<br>(VF=0V, f=1MHz)                        | C               | 35               | pF   |

| Part Number | Emitting Color | Emitting Material | Lens-color  | Luminous Intensity<br>(IF=20mA)<br>mcd |      | Viewing Angle<br>2 $\theta$ 1/2 |
|-------------|----------------|-------------------|-------------|--|------|---------------------------------|
|             |                |                   |             | min.                                   | typ. |                                 |
| ZMDK66W     | Red            | InGaAlP           | Water Clear | 70                                     | 178  | 120°                            |

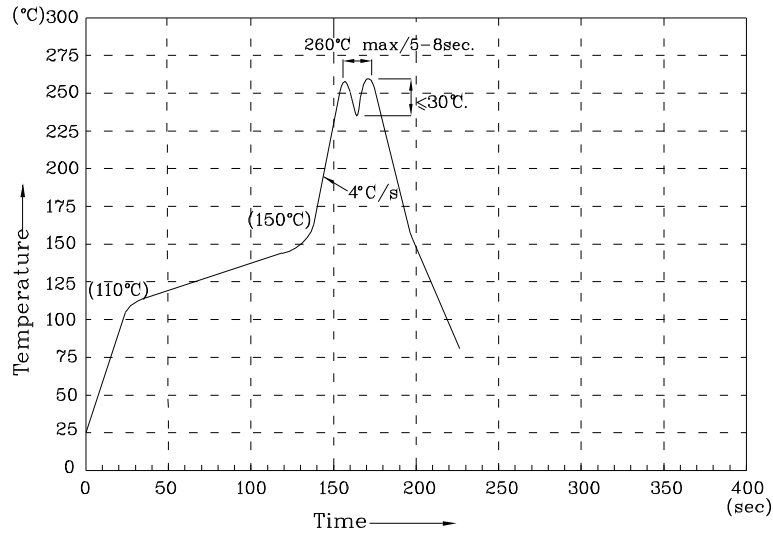


❖ **MDK**





Wave Soldering Profile For Lead-free Through-hole LED.



NOTE:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- 2.Do not apply stress on epoxy resins when temperature is over 85 degree°C.
- 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.No more than once.

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

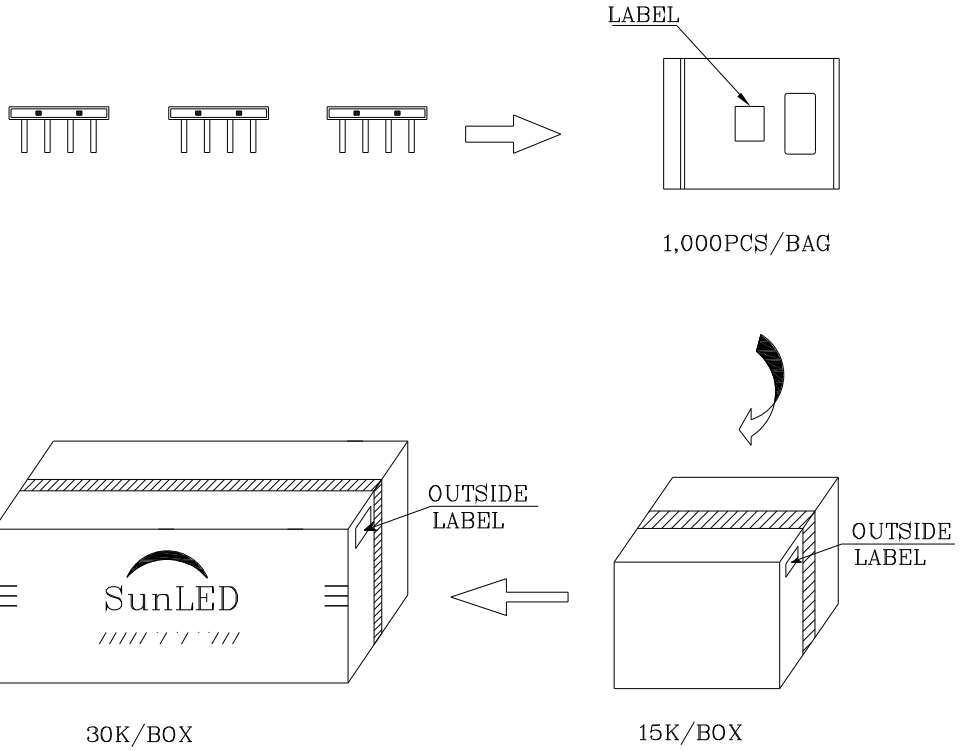
Note: Accuracy may depend on the sorting parameters.




11mm x 1.4mm BACKLIGHT

**PACKING & LABEL SPECIFICATIONS**

**ZMDK66W**



|  |           |
|--|-----------|
| P/NO : Zxx66x  |           |
| QTY : 1,000 pcs  | CODE: XXX |
| S/N : XX   |           |
| LOT NO:  |           |
| <br>XXXXXXXXXXXXXXXXXXXXXXXX |           |
| RoHS Compliant   |           |