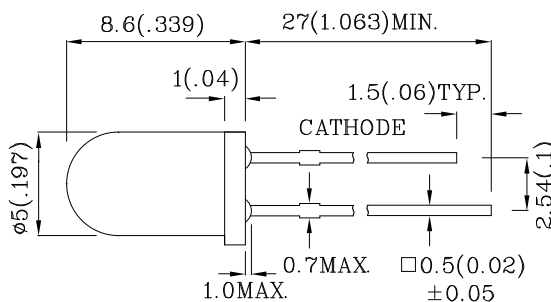
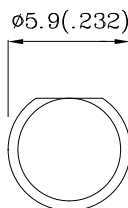


## Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.



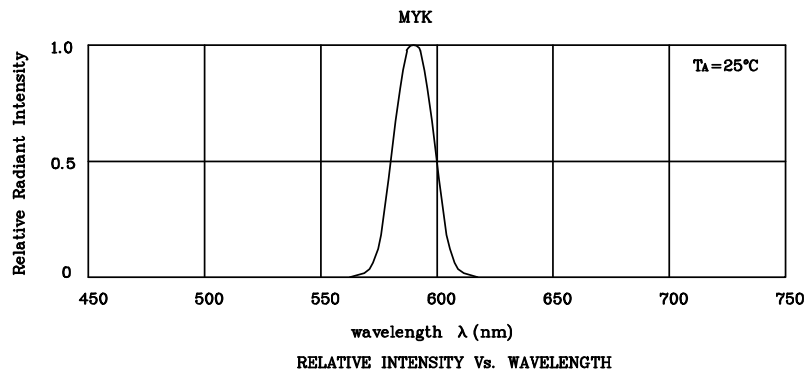
Notes:

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.

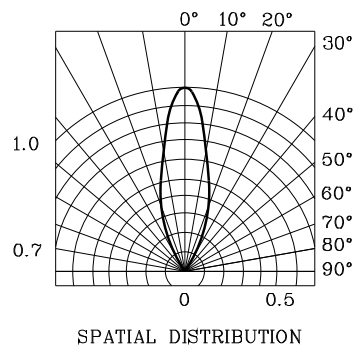
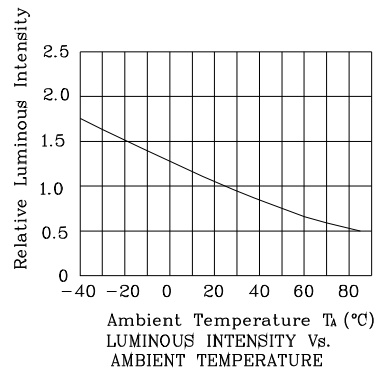
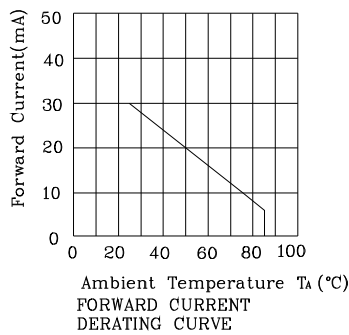
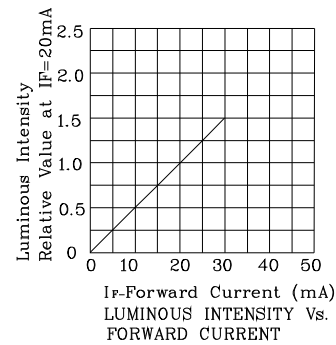
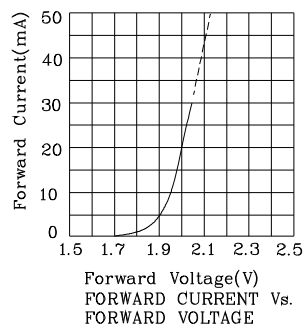
| Absolute Maximum Ratings<br>(TA=25°C)                          |                     | MYK<br>(InGaAlP) | Unit |
|----------------------------------------------------------------|---------------------|------------------|------|
| Reverse Voltage                                                | VR                  | 5                | V    |
| Forward Current                                                | IF                  | 30               | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | iFS                 | 175              | 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)                          |                 | MYK<br>(InGaAlP) | Unit |
|-----------------------------------------------------------------|-----------------|------------------|------|
| Forward Voltage (Typ.)<br>(IF=20mA)                             | VF              | 2.0              | V    |
| Forward Voltage (Max.)<br>(IF=20mA)                             | VF              | 2.5              | V    |
| Reverse Current (Max.)<br>(VR=5V)                               | IR              | 10               | uA   |
| Wavelength Of Peak<br>Emission (Typ.)<br>(IF=20mA)              | $\lambda$ P     | 590              | nm   |
| Wavelength Of Dominant<br>Emission (Typ.)<br>(IF=20mA)          | $\lambda$ D     | 590              | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(IF=20mA) | $\Delta\lambda$ | 20               | nm   |
| Capacitance (Typ.)<br>(VF=0V, f=1MHz)                           | C               | 20               | pF   |

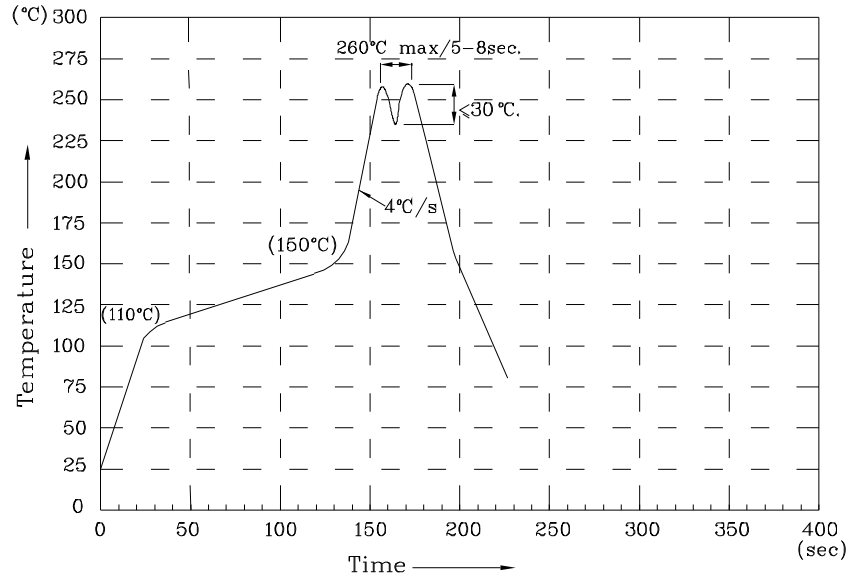
| Part Number                   | Emitting Color | Emitting Material     | Lens-color      | Luminous Intensity (IF=20mA)<br>mcd | Wavelength<br>nm<br>λ P | Viewing Angle<br>2 θ 1/2 |
|-------------------------------|----------------|-----------------------|-----------------|-------------------------------------|-------------------------|--------------------------|
|                               |                |                       |                 | min.                                | typ.                    |                          |
| XLMYK12D                      | Yellow         | InGaAlP               | Yellow Diffused | 110                                 | 377                     | 590 30°                  |
|                               |                |                       |                 |                                     |                         |                          |
|                               |                |                       |                 |                                     |                         |                          |
| Published Date : MAR 12, 2008 |                | Drawing No : XDSA7100 |                 | V3                                  | Checked : B.L.LIU       | P.1/4                    |



❖ **MYK**



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



NOTES:

- 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:

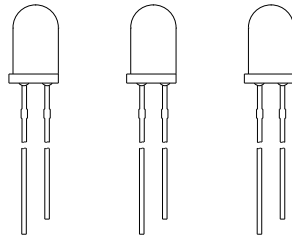
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

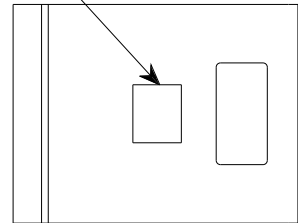
Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

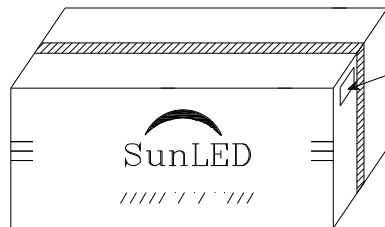
**XLMYK12D**



LABEL

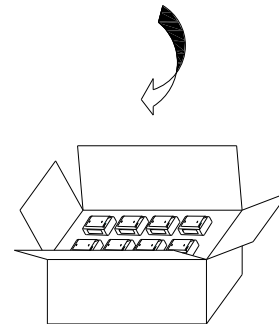


500PCS/BAG

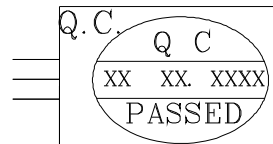


20K/ BOX

OUTSIDE LABEL



10K/ BOX



P/NO : XLxx12x

QTY : 500 pcs

CODE: XXX

S/N : XX

LOT NO:



RoHS Compliant