





# T-1 3/4 (5mm) SOLID STATE LAMP

### **Features**

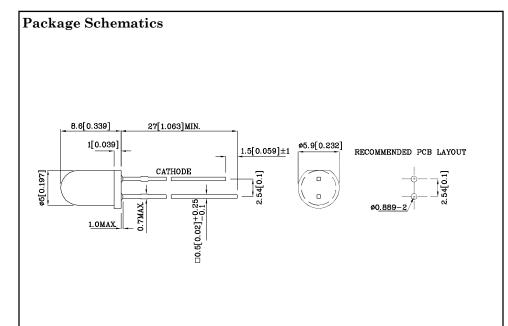
- Radial / Through hole package
- $\bullet$  Reliable & robust
- Low power consumption
- Available on tape and reel
- 5V internal resistor.
- RoHS Compliant







# ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



#### 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 (T <sub>A</sub> =25°C)		MYK (AlGaInP)	Unit		
Reverse Voltage	$V_{\rm R}$	5	V		
Forward Voltage	$V_{\mathrm{F}}$	6	V		
Power Dissipation	$P_{D}$	85	mW		
Operating Temperature	T <sub>A</sub> -40 ~ +70		°C		
Storage Temperature	Tstg	-40 ~ +85			
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds				
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds				

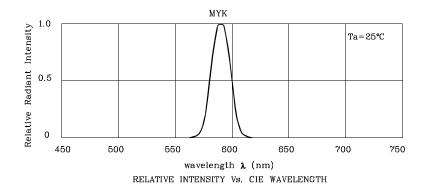
Operating Characteristics $(T_A=25^{\circ}C)$		MYK (AlGaInP)	Unit
Forward Current (Typ.) $(V_F=5V)$	$I_{\mathrm{F}}$	13	mA
Forward Current (Max.) $(V_F=5V)$	$I_{\mathrm{F}}$	17.5	mA
Reverse Current (Max.) $(V_R=5V)$	$I_R$	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (V <sub>F</sub> =5V)	λΡ	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (V <sub>F</sub> =5V)	λD	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (V <sub>F</sub> =5V)	$\triangle \lambda$	20	nm

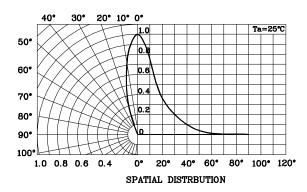
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* $(V_F=5V)$ mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XLMYK12D5V	Yellow	AlGaInP	Yellow Diffused	250*	497*	590*	30°

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

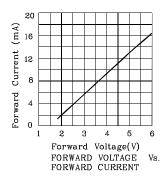


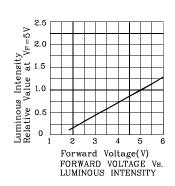


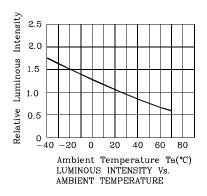




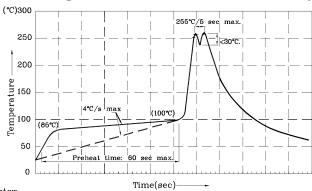
# **❖** MYK







Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



#### Notes:

- Notes. I. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of  $260^{\circ}C$  2. Peak wave soldering temperature between  $245^{\circ}C \sim 255^{\circ}C$  for 3 sec
- (5 sec max).
- $3.\mathrm{Do}$  not apply stress to the epoxy resin while the temperature is above  $85^{\circ}\mathrm{C}$ .  $4.\mathrm{Fixtures}$  should not incur stress on the component when mounting and
- during soldering process. 5.SAC 305 solder alloy is recommended.
- 6. No more than one wave soldering pass.

# Remarks:

If special sorting is required (e.g. binning based on Luminous intensity/ luminous flux, or wavelength),

the typical accuracy of the sorting process is as follows:

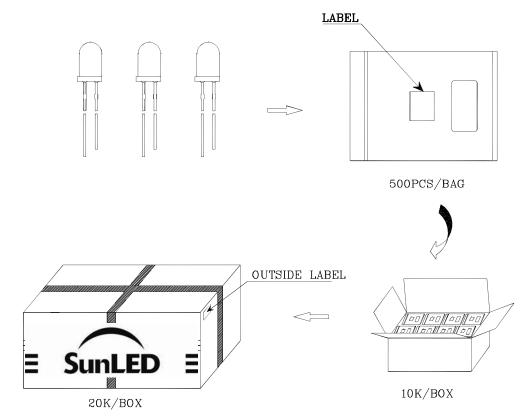
- 1. Wavelength: +/-1nm
- 2. Luminous intensity/ luminous flux: +/-15%

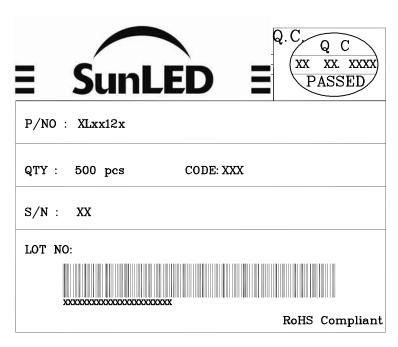
Note: Accuracy may depend on the sorting parameters.





# PACKING & LABEL SPECIFICATIONS





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