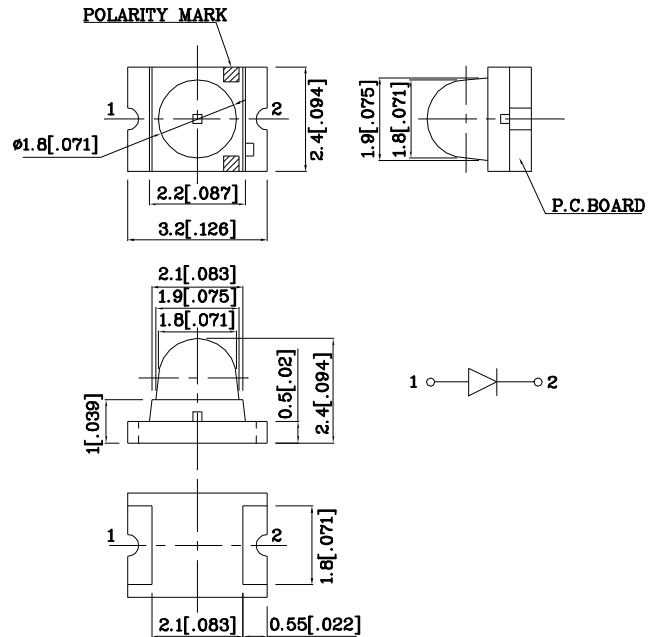


Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 1,500pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant



Package Schematics



Notes:

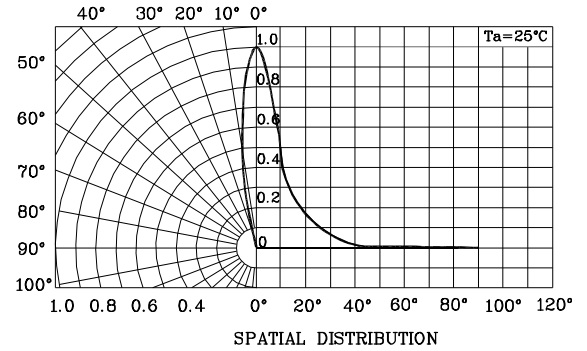
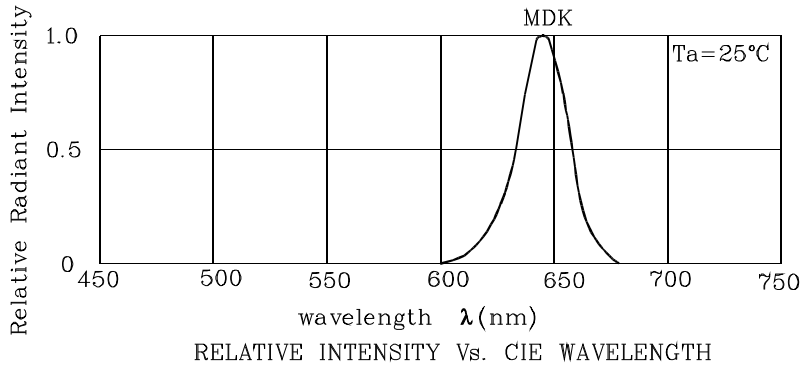
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.1 (0.004") unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		MDK (AlGaInP)	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	185	mA
Power Dissipation	P _D	75	mW
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	

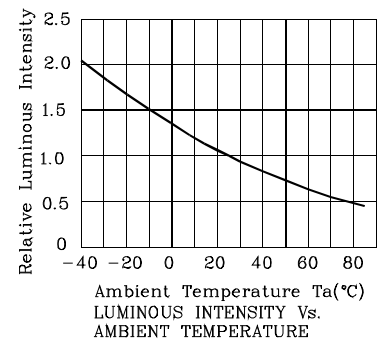
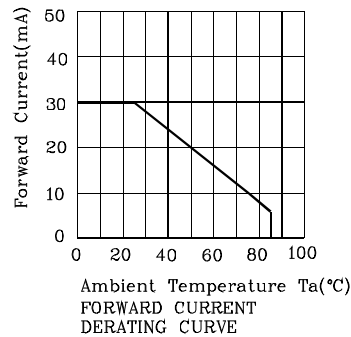
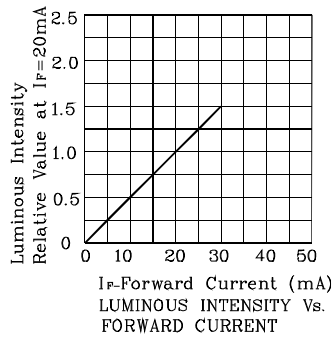
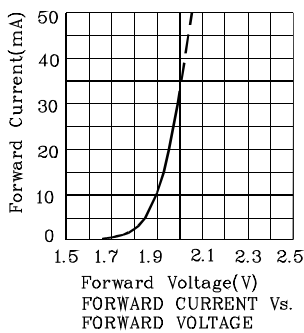
Operating Characteristics (T _A =25°C)		MDK (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	1.95	V
Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λ _P	645*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =20mA)	λ _D	630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	35	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λ _P	Viewing Angle 2θ 1/2
				min.	typ.		
XZMDK78W	Red	AlGaInP	Water Clear	1300 700*	2690 1495*	645*	20°

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

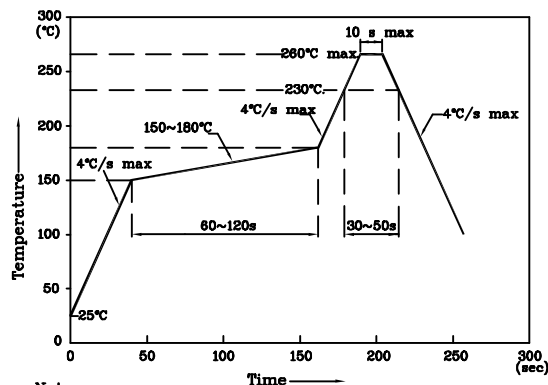


❖ MDK

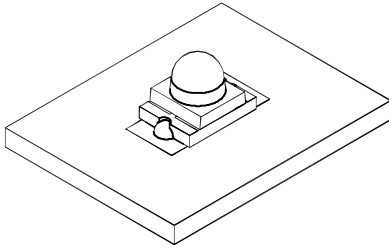


LED is recommended for reflow soldering and soldering profile is shown below.

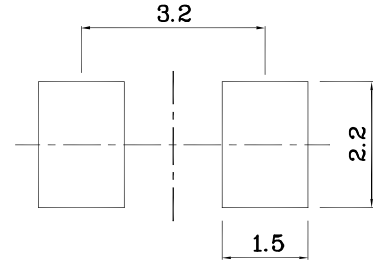
Reflow Soldering Profile for SMD Products (Pb-Free Components)



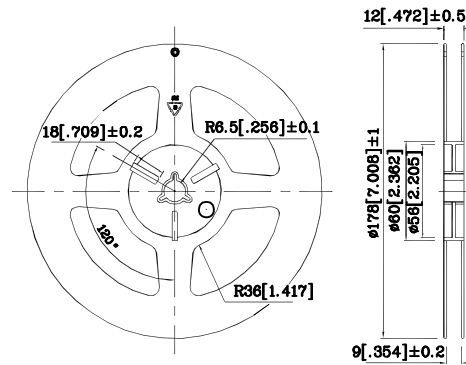
❖ The device has a single mounting surface.
The device must be mounted according to the specifications.



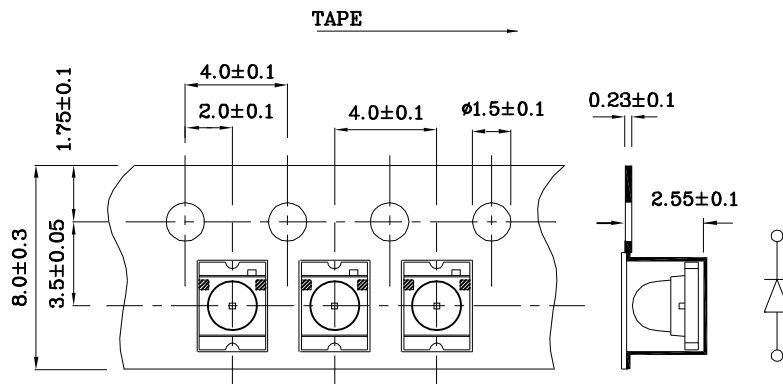
❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ Reel Dimension



❖ Tape Specification (Units : mm)



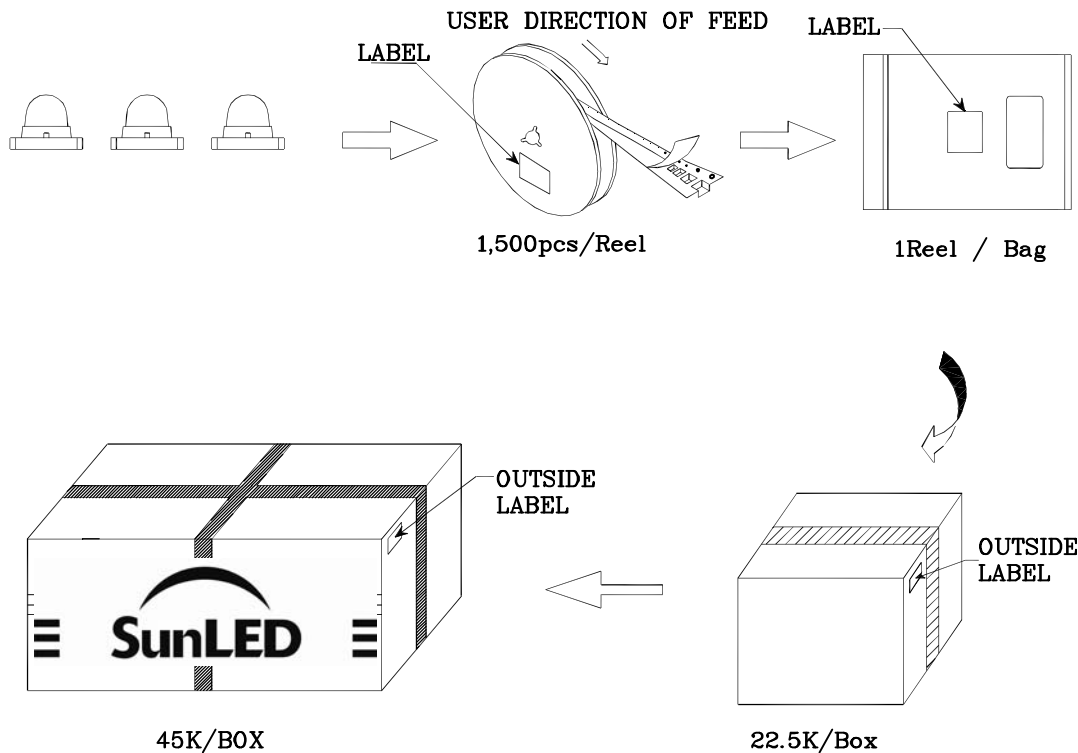
Remarks:

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

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



		Q.C. Q C XX XX XXXX PASSED
P/NO : XZxxx78x		
QTY : 1,500 pcs		CODE: XXX
S/N : XX		
LOT NO: XXXXXXXXXXXXXXXXXXXX		
RoHS Compliant		

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3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
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