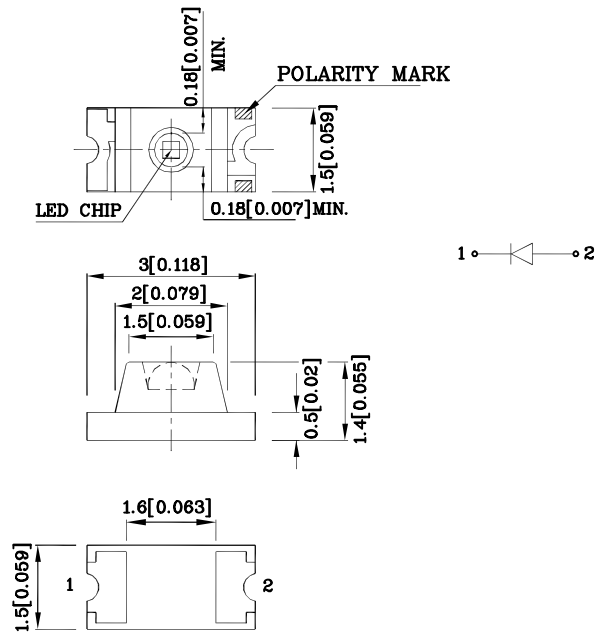


## Features

- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package : 2000pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant



## Package Schematics



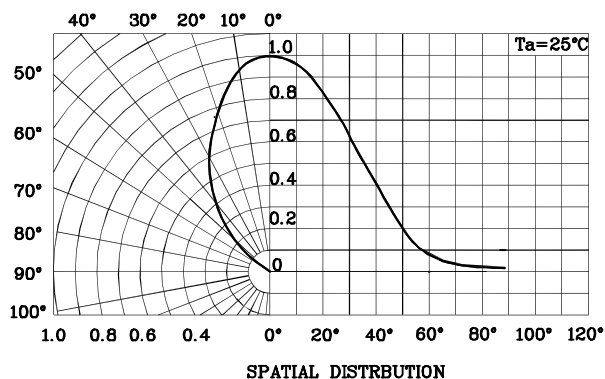
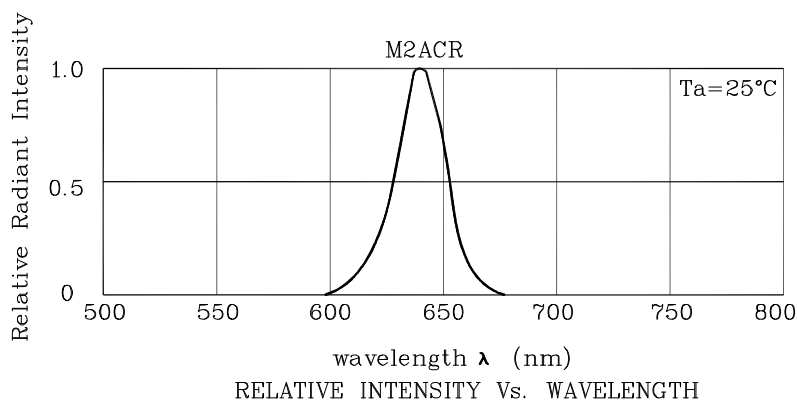
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.2(0.008")$  unless otherwise noted.
3. Specifications are subject to change without notice.

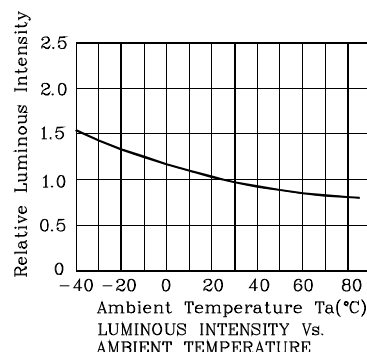
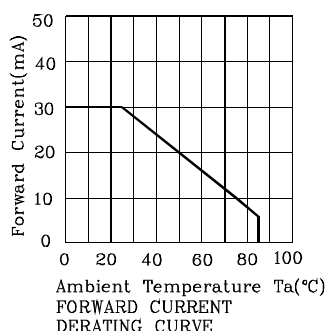
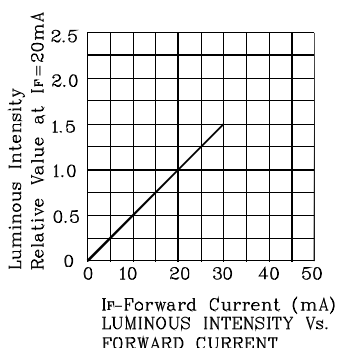
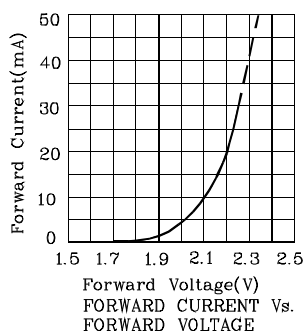
Absolute Maximum Ratings (T <sub>A</sub> =25°C)		M2ACR (AlGaInP)	Unit
Reverse Voltage	V <sub>R</sub>	5	V
Forward Current	I <sub>F</sub>	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i <sub>FS</sub>	150	mA
Power Dissipation	P <sub>D</sub>	84	mW
Operating Temperature	T <sub>A</sub>	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	

Operating Characteristics (T <sub>A</sub> =25°C)		M2ACR (AlGaInP)	Unit
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	V <sub>F</sub>	2.2	V
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	V <sub>F</sub>	2.8	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	I <sub>R</sub>	10	uA
Wavelength of Peak Emission (Typ.) (I <sub>F</sub> =20mA)	λP	640	nm
Wavelength of Dominant Emission (Typ.) (I <sub>F</sub> =20mA)	λD	625	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)	△λ	25	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	C	27	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I <sub>F</sub> =20mA) mcd	Wavelength nm λP	Viewing Angle 2θ 1/2	
				min.	typ.		
XZM2ACR60W	Red	AlGaInP	Water Clear	2000	2690	640	70°

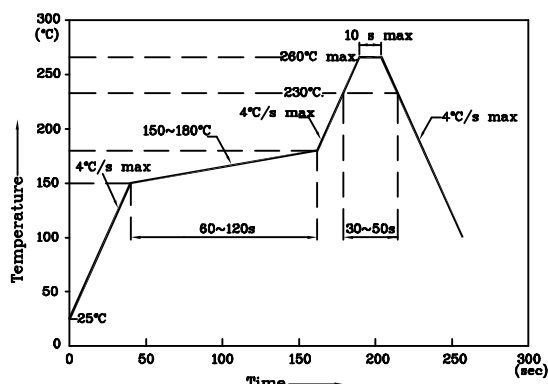


### ❖ M2ACR



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

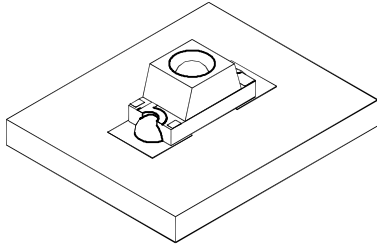
### Reflow Soldering Profile for SMD Products (Pb-Free Components)



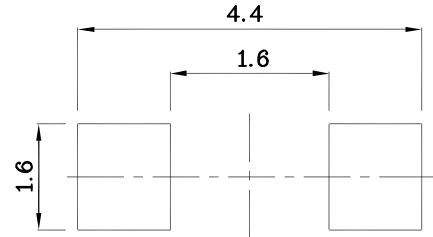
#### Notes:

1. Maximum soldering temperature should not exceed 260°C
2. Recommended reflow temperature: 145°C~260°C
3. Do not put stress to the epoxy resin during high temperatures conditions

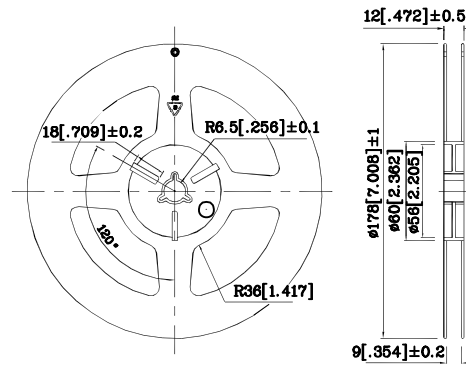
❖ The device has a single mounting surface.  
The device must be mounted according to the specifications.



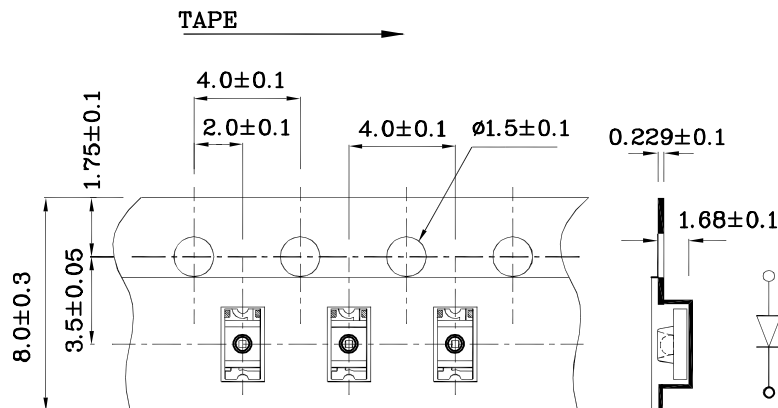
❖ Recommended Soldering Pattern  
(Units : mm; Tolerance:  $\pm 0.1$ )



❖ Reel Dimension



❖ Tape Specification (Units : mm)



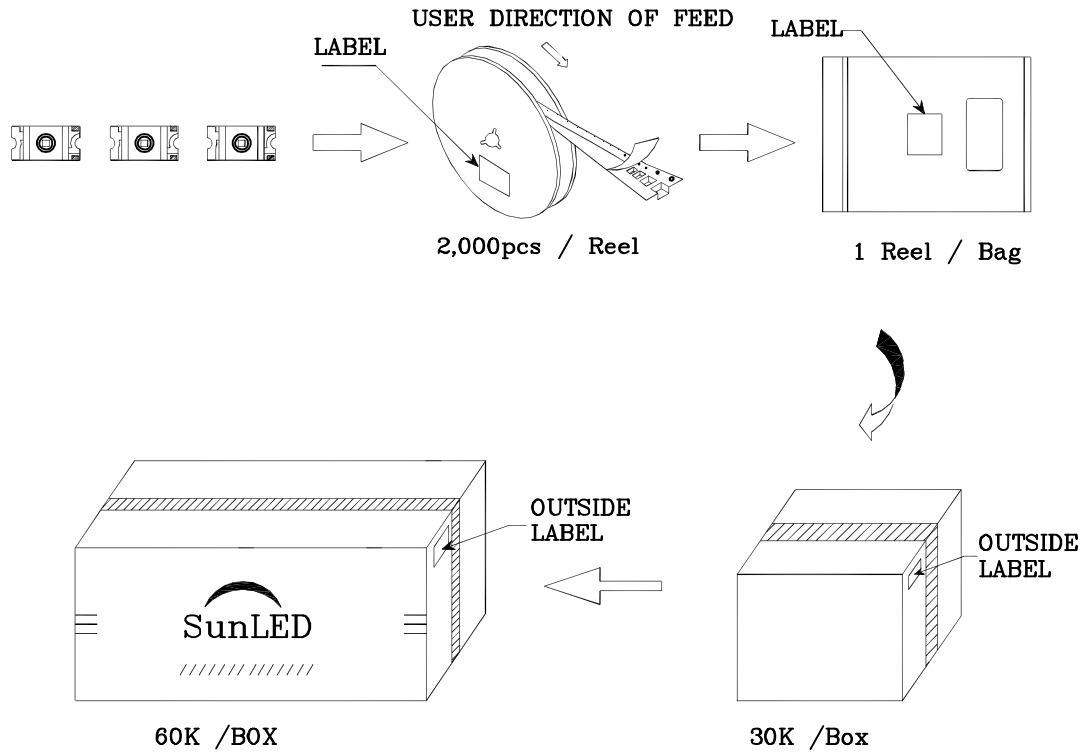
**Remarks:**

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



P/NO : XZxx60x		
QTY : 2,000 pcs		CODE: XXX
S/N : XX		
LOT NO:  xxxxxxxxxxxxxxxxxxxxxxxx		
RoHS Compliant		