



# www.SunLEDusa.com

### **Features**

• Ideal for indication light on hand held products

• Long life and robust package

• Standard Package: 500pcs/ Reel

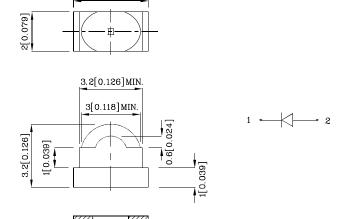
 $\bullet$  MSL (Moisture Sensitivity Level): 3

• RoHS compliant





## Package Schematics



1[0.039]

3.8[0.150]

### 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.

1[0.039] POLARITY MARK

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		M2MOK (AlGaInP)	Unit	
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	$I_{\mathrm{F}}$	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	150	mA	
Power Dissipation	$P_D$	84	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85		

Operating Characteristics (T <sub>A</sub> =25°C)		M2MOK (AlGaInP)	Unit	
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	$V_{\mathrm{F}}$	2.2	V	
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\mathrm{F}}$	2.8	V	
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_R$	10	uA	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λΡ	611*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=20\text{mA})$	λD	605*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)	Δλ	17	nm	
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	C	27	pF	

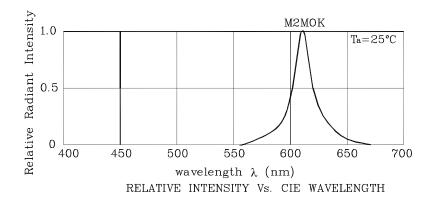
Part Number	Emitting Color	Emitting Material	Lens-color	$ m Luminous \ CIE127 \ (I_F=2000 \ model)$	7-2007* 0mA)	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2	
				min.	typ.			
XZM2MOK79W	Orange	AlGaInP	Water Clear	3600 1300*	4790 1495*	611*	60°(H) 35°(V)	

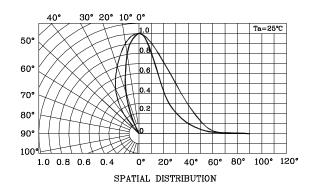
<sup>\*</sup>Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Feb 18,2014 XDSB7791 V1-X Layout: Maggie L.

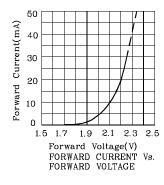


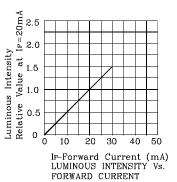


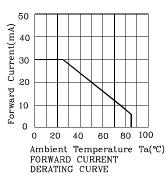


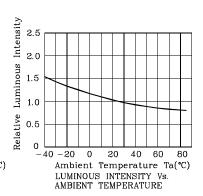


### **❖** M2MOK



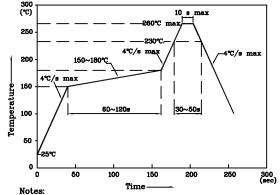






# LED is recommended for reflow soldering and soldering profile is shown below.

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

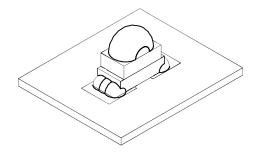


- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

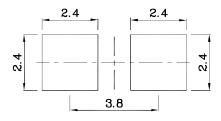




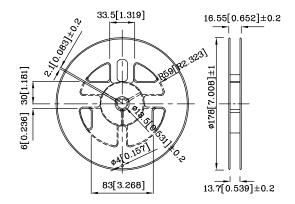
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



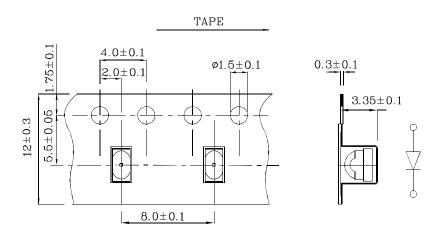
# **♦** Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



### **❖** Reel Dimension



## **❖** Tape Specification (Units:mm)



#### Remarks:

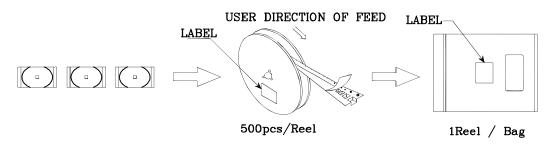
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

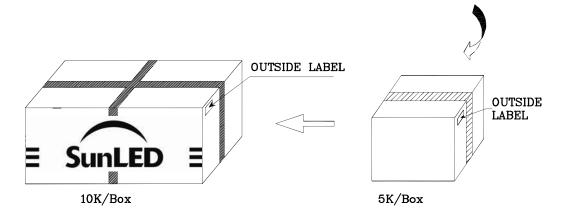
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

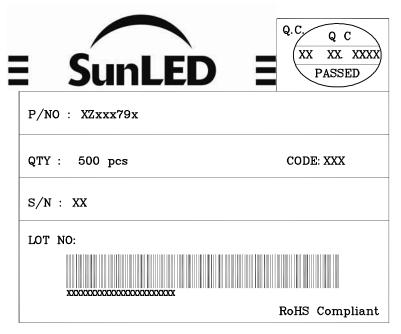
Note: Accuracy may depend on the sorting parameters.



# PACKING & LABEL SPECIFICATIONS







#### TERMS OF USE

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- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 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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- 6. Additional technical notes are available at <a href="http://www.SunLEDusa.com/TechnicalNotes.asp">http://www.SunLEDusa.com/TechnicalNotes.asp</a>

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