

Part Number: XZMDKMYK170W

2.0 mm x 0.6 mm Right Angle SMD Chip LED Lamp

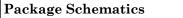
Features

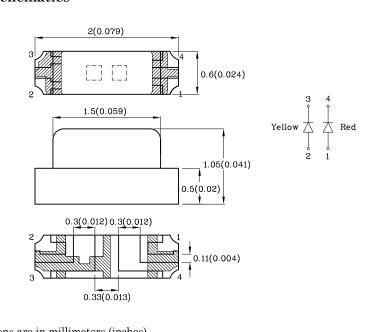
- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES





1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.

3. Specifications are subject to change without notice.

4. The solder stencil thickness for right angle SMD LEDs should be at least 5mil in order to

prevent poor solder wetting.

Notes:

Absolute Maximum Ratings (T _A =25°C)		Red (AlGaInP)	Yellow (AlGaInP)	Unit
Reverse Voltage	V_{R}	5	5	V
Forward Current	$\mathbf{I}_{\mathbf{F}}$	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$I_{\rm FP}$	185	175	mA
Power Dissipation	\mathbf{P}_{D}	75	75	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		C

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

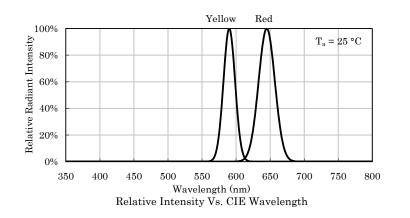
Operating Characteristics (T _A =25°C)		Red (AlGaInP)	Yellow (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	1.95	2	v
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v
Reverse Current (Max.) (V _R =5V)	I_R	10	10	μА
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λP	645*	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	630*	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle \lambda$	28	20	nm

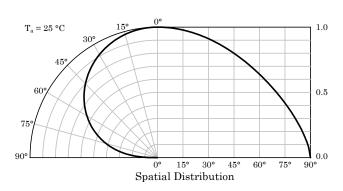
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZMDKMYK170W	Red	AlGaInP	- Water Clear	60 20*	238 79*	645*	140°
	Yellow	AlGaInP	- water Clear	40 40*	98 98*	590*	

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Jul 06.2023

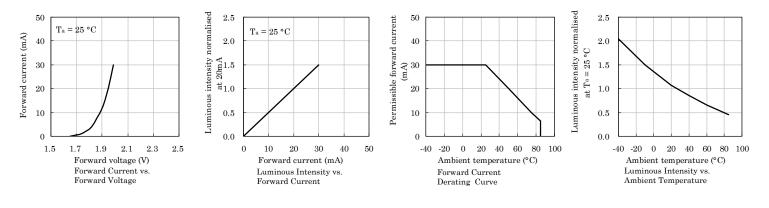
XDSB9609 V1-X Layout: Maggie L.



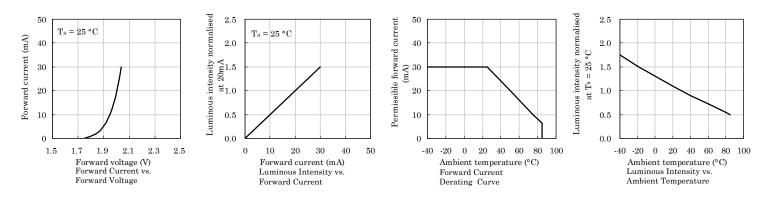




✤ Red

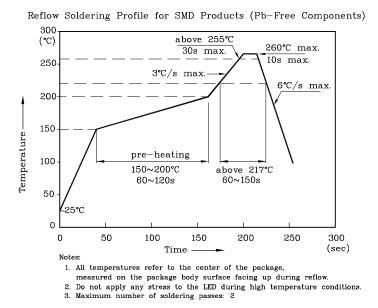


Yellow

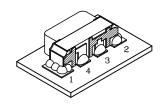




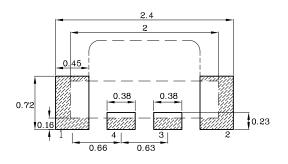
LED is recommended for reflow soldering and soldering profile is shown below.



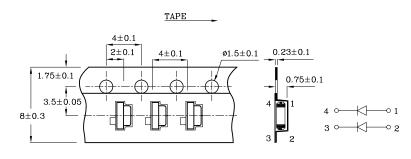
The device has a single mounting surface. The device must be mounted according to the specifications.



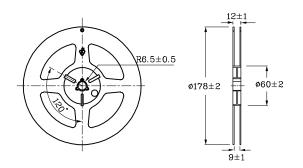
Recommended Soldering Pattern



Tape Specification (Units : mm)



Reel Dimension (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%

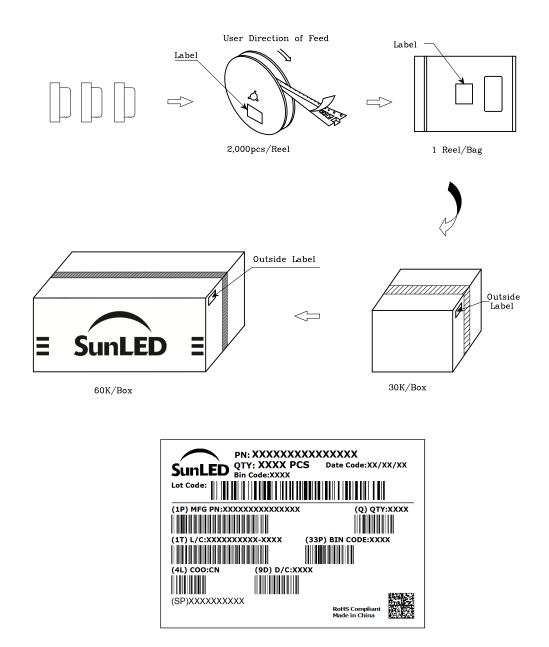
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

Jul 06,2023



PACKING & LABEL SPECIFICATIONS



TERMS OF USE

- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 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.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
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