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SunLED XZM2CYK105S

For any questions, you can email us directly: sales@integrated-circuit.com



Datasheet of XZM2CYK105S - LED YELLOW CLEAR 2SMD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Part Number: XZM2CYK105S

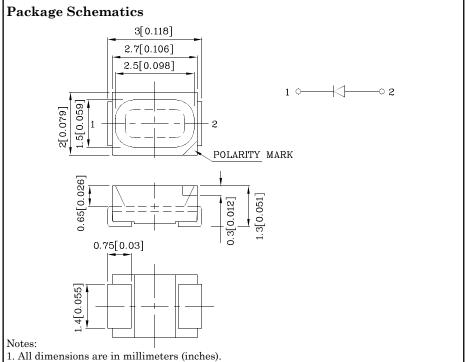
3.0x2.0mm SURFACE MOUNT LED LAMP

Features

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







- 2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		M2CYK (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}	140	mA
Power Dissipation	P_{D}	75	mW
Operating Temperature	T_{A}	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

Operating Characteristics $(T_A=25^{\circ}C)$		M2CYK (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2	V
Forward Voltage (Max.) (I _F =20mA)	$ m V_F$	2.5	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) $(I_F=20\text{mA})$	λΡ	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=20\text{mA})$	λD	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$\triangle \lambda$	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	pF

Part Number	Emitting Color	Emitting Material	Lens-color	CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZM2CYK105S	Yellow	AlGaInP	Water Clear	300*	497*	590*	125°

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

May 05,2015

XDSB7813 V2-Z Layout: Maggie L.



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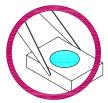
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Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force.

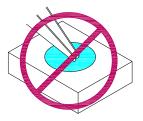
As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.

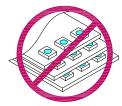


2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

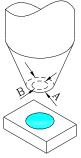




3. Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.



- 4.1. The inner diameter of the SMD pickup nozzle should not exceed the size of the LED to prevent air leaks.
- 4.2. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 4.3. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



5. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.

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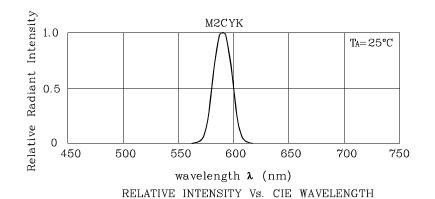
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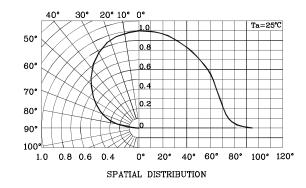


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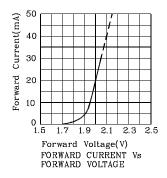
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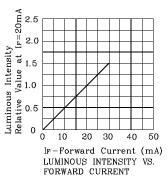


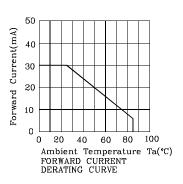


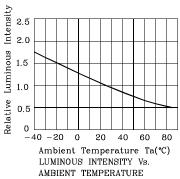


❖ M2CYK



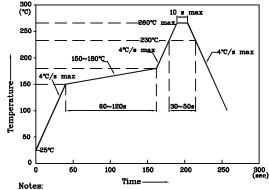






LED is recommended for reflow soldering and soldering profile is shown below.

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



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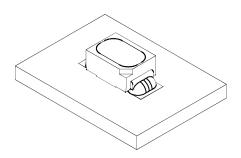
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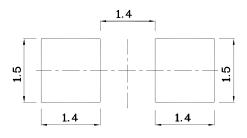
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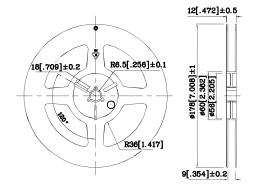
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



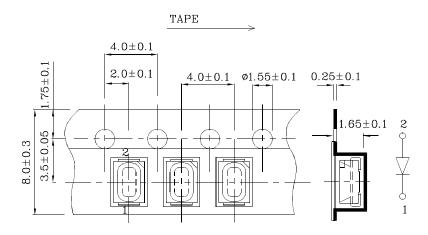
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ 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: \pm -0.1V

Note: Accuracy may depend on the sorting parameters.



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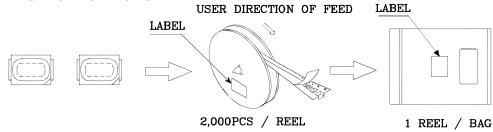


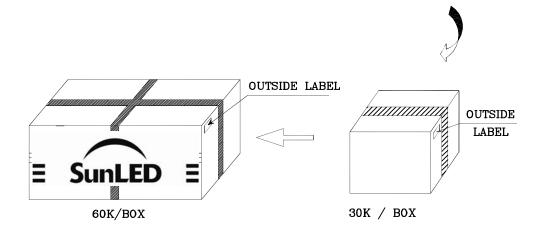
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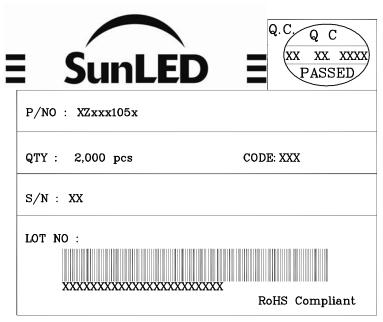
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PACKING & LABEL SPECIFICATIONS







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