Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

SunLED XZM2CYK45S-9

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



Datasheet of XZM2CYK45S-9 - LED YELLOW CLEAR 2SMD GW REV

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



Part Number: XZM2CYK45S-9

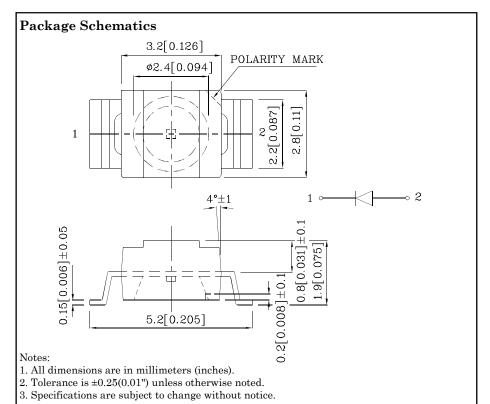
3.2x2.8mm PLCC2 SMD LED

Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant







M2CYK Absolute Maximum Ratings Unit (T_A=25°C) (AlGaInP) Reverse Voltage $V_{R} \\$ V Forward Current 50 I_{F} mA Forward Current (Peak) 1/10 Duty Cycle i_{FS} 140 mA0.1ms Pulse Width Power Dissipation 125 P_{D} mW $T_{\rm A}$ Operating Temperature -40 ~ +85 °C Storage Temperature Tstg -40 ~ +85

Operating Characteristics $(T_A=25$ °C)	M2CYK (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2	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.) $(I_F=20 \text{mA})$	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

Wavelength

Luminous Intensity

Part Number	Emitting Color	Emitting Material	Lens-color	CIE127-2007* (I _F =20mA) mcd		CIE127-2007* nm λP	Angle 20 1/2
				min.	typ.		
XZM2CYK45S-9	Yellow	AlGaInP	Water Clear	200*	447*	590*	120°

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

Feb 24,2014 XDSB7820 V1-Z Layout: Maggie L.



Datasheet of XZM2CYK45S-9 - LED YELLOW CLEAR 2SMD GW REV

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



Part Number: XZM2CYK45S-9

3.2x2.8mm PLCC2 SMD LED

Handling Precautions

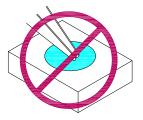
Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using 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.

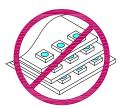


2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

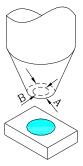




3. Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.



- 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.

Feb 24,2014 XDSB7820 V1-Z Layout: Maggie L.



Datasheet of XZM2CYK45S-9 - LED YELLOW CLEAR 2SMD GW REV

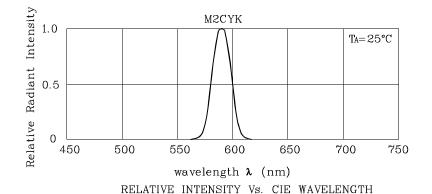
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

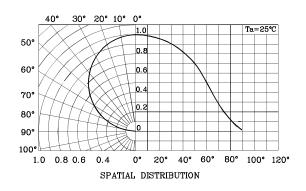


Part Number: XZM2CYK45S-9

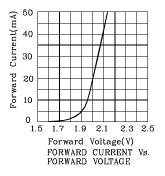
3.2x2.8mm PLCC2 SMD LED

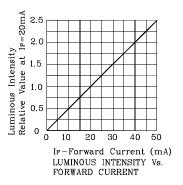


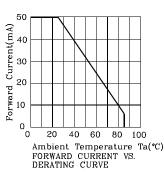


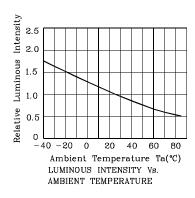


❖ M2CYK



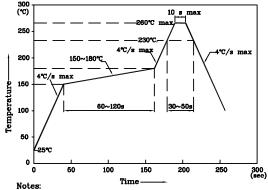






LED is recommended for reflow soldering and soldering profile is shown below.

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



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

Feb 24,2014 XDSB7820 V1-Z Layout: Maggie L.



Datasheet of XZM2CYK45S-9 - LED YELLOW CLEAR 2SMD GW REV

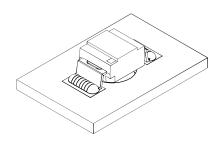
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



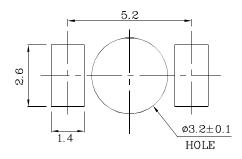
Part Number: XZM2CYK45S-9

3.2x2.8mm PLCC2 SMD LED

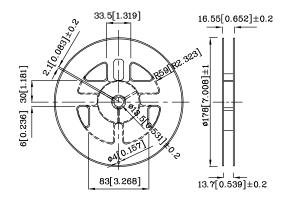
♦ The device has a single mounting surface. The device must be mounted according to the specifications.



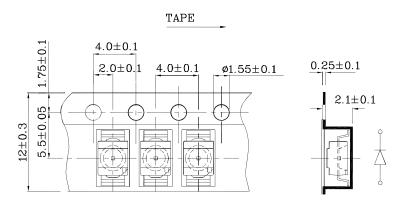
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ 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.

Feb 24,2014 XDSB7820 V1-Z Layout: Maggie L.



Datasheet of XZM2CYK45S-9 - LED YELLOW CLEAR 2SMD GW REV

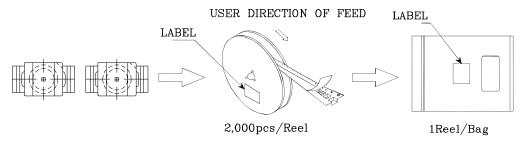
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

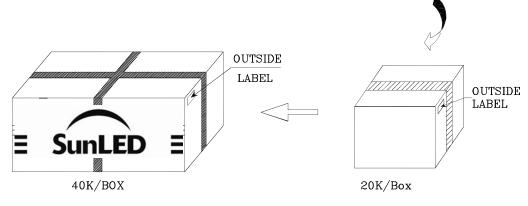


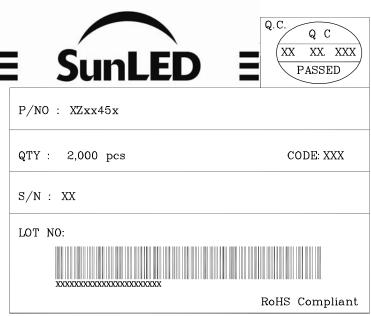
Part Number: XZM2CYK45S-9

3.2x2.8mm PLCC2 SMD LED

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.
- 5. The contents within this document may not be altered without prior consent by SunLED.
- 6. Additional technical notes are available at http://www.SunLEDusa.com/TechnicalNotes.asp

Feb 24,2014 XDSB7820 V1-Z Layout: Maggie L.

P. 5/5