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SunLED XZM2CRK81FS

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



Datasheet of XZM2CRK81FS - LED RED CLEAR 2SMD R/A

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



Part Number: XZM2CRK81FS

2.8X0.8mm RIGHT ANGLE SMD CHIP LED LAMP

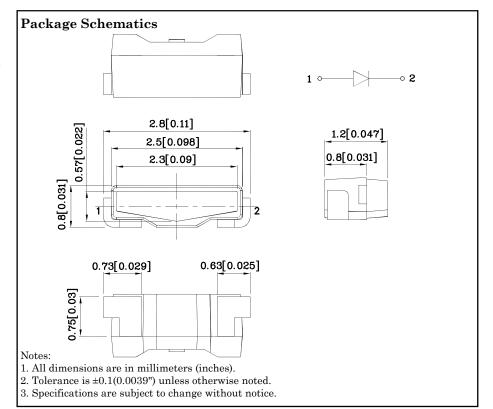
Features

- 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
- ullet RoHS compliant

May 06,2015







Absolute Maximum Ratings $(T_A=25^{\circ}C)$		M2CRK (AlGaInP)	Unit	
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	I_{F}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	150	mA	
Power Dissipation	P_{D}	84	mW	
Operating Temperature	T_{A}	-40 ~ +85	°C	
Storage Temperature	Tstø	-40 ~ +85	-0	

Operating Characteristics (T_A =25°C)	M2CRK (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2.2	V
Forward Voltage (Max.) (I _F =20mA)	V_{F}	2.8	V
Reverse Current (Max.) $(V_R=5V)$	${ m I}_{ m R}$	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) $(I_F=20\text{mA})$	λΡ	640*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) $(I_F=20\text{mA})$	λD	625*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	20	nm
Capacitance (Typ.) $(V_F=0V, f=1MHz)$	C	27	pF

Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} Luminous \ Intensity \\ CIE127-2007* \\ (I_F=20mA) \\ mcd \end{array}$		Wavelength CIE127-2007* nm λΡ	Viewing Angle 20 1/2
				min.	typ.		
XZM2CRK81FS	Red	AlGaInP	Water Clear	1000 300*	1590 497*	640*	110°

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



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



2. 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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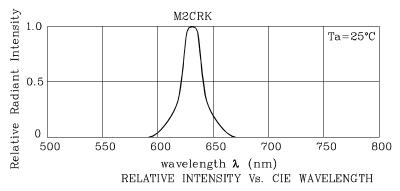
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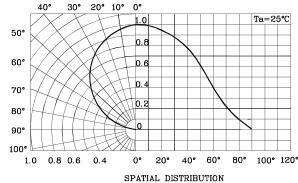
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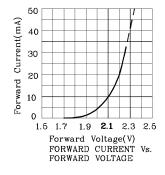
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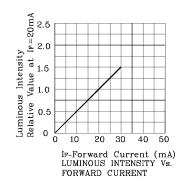
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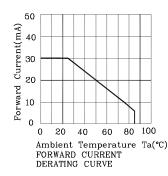


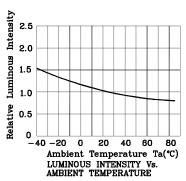


❖ M2CRK



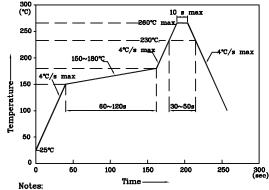






LED is recommended for reflow soldering and soldering profile is shown below.

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



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

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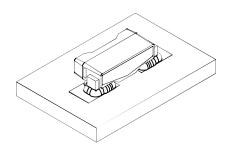
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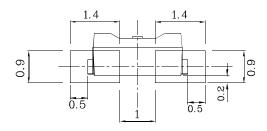
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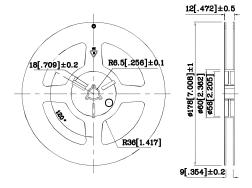
♦ The device has a single mounting surface. The device must be mounted according to the specifications.



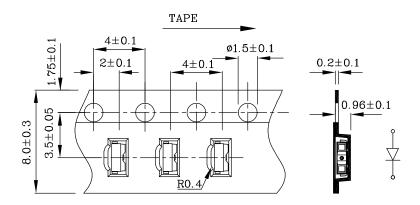
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ 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: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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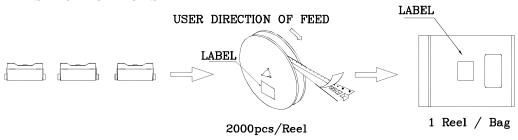
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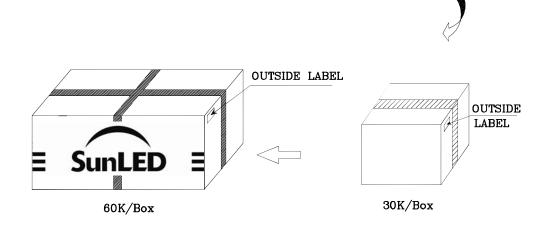


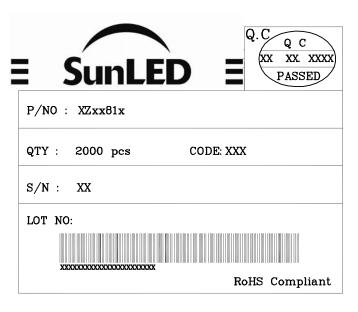
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PACKING & LABEL SPECIFICATIONS







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