

Excellent Integrated System Limited

Stocking Distributor

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SunLED XSM2CRK983W

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



Part Number: XSM2CRK983W

SUPER FLUX LED LAMP

- Features
- High current operation for greater luminous output
- Low power consumption and thermal resistance
- Can be used with automatic insertion equipment
- RoHS Compliant

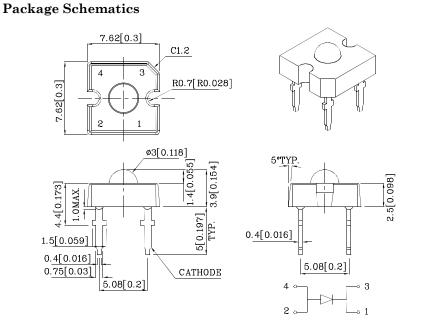


Benefits:

Rugged design allows for easy maintenanceRobust package for optimum reliability

Typical Applications:

- •Automotive side markers
- •Gaming and entertainment lighting
- •Signs and road hazard indicators



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Rating (T _A =25°C)	M2CRK (AlGaInP)	Unit		
Reverse Voltage	V_{R}	5	V	
DC Forward Current	nt I _F 70		mA	
Power Dissipation	\mathbf{P}_{D}	210	mW	
Operating Temperature	$T_{\rm A}$	$-40 \sim +85$	°C	
Storage Temperature	Tstg	$-55 \sim +85$	-0	
Lead Solder Temperature [1.5mm Below Seating Plane.]	260°C For 5 Seconds			

Operating Characteristics (T _A =25°C)	M2CRK (AlGaInP)	Unit	
Forward Voltage (Min.) (I _F =70mA)	$V_{\rm F}$	2.0	V
Forward Voltage (Typ.) (I _F =70mA)	$V_{\rm F}$	2.4	V
Forward Voltage (Max.) (I _F =70mA)	$V_{\rm F}$	3.0	V
Reverse Current (Max.) ($V_R=5V$)	I_R	10	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =70mA)	λP	640*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =70mA)	λD	625*	nm
Spectral Line Full Width At Half Maximum (Typ.) (I _F =70mA)	$ riangle \lambda$	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	27	pF
Thermal Resistance (Typ.)	Rθj-pin	125	°C/W

1.No Reflow soldering .

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous CIE127 (I _F =70)		Luminous Flux CIE127-2007* (I _F =70mA) lm	Wavelength CIE127-2007* λP nm	Viewing Angle 20 1/2
				min.	typ.	typ.		
XSM2CRK983W	Red	AlGaInP	Water Clear	$5.5 \\ 2.7*$	8.99 4.49*	6.3*	640*	70°

1. Luminous intensity is measured with an integrating sphere after the device has stabilized.

 $2.0 \ 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

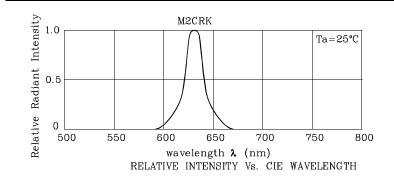
3.LEDs are binned according to their Luminous intensity.

* Luminous intensity / luminous flux value and wavelength are in accordance with CIE127-2007 standards.

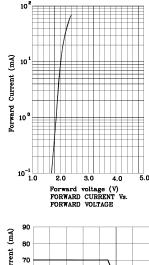


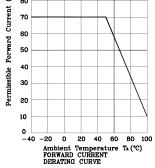
Distributor of SunLED: Excellent Integrated System Limited Datasheet of XSM2CRK983W - LAMP 7.6MM SQ SUP FLUX RD WTR CL Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

www.SunLEDusa.com

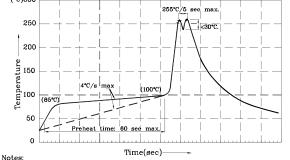


✤ M2CRK





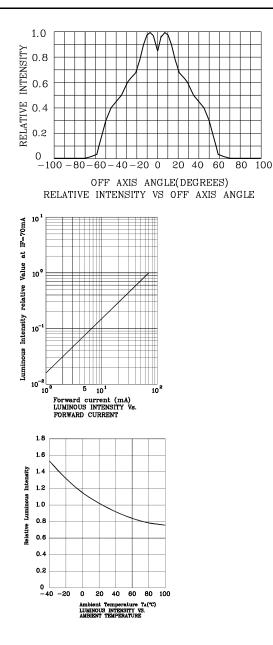
Wave Soldering Profile For Thru-Hole Products (Pb-Free Components) (°C)300



- Notes: Innecession of the second seco

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Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength),

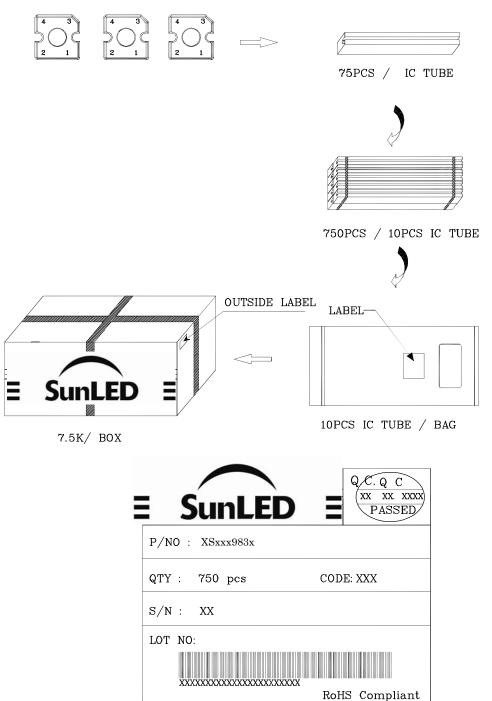
- the typical accuracy of the sorting process is as follows:
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V
- Note: Accuracy may depend on the sorting parameters.



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PACKING & LABEL SPECIFICATIONS



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- 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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- 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 <u>http://www.SunLEDusa.com/TechnicalNotes.asp</u>

 $Dec \ 26,2013$

XDSB7180 V2-X Layout: Maggie L.