

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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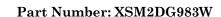
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SUPER FLUX LED LAMP

#### **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 maintenance
- •Robust package for optimum reliability

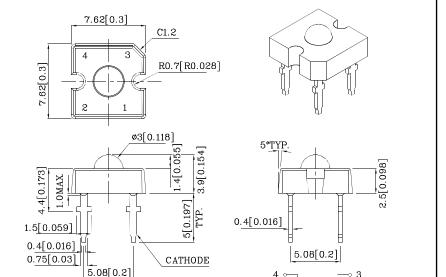
## **Typical Applications:**

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



# ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

## **Package Schematics**



#### 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 Ratings ( $T_A=25^{\circ}C$ )		Green (InGaN)	Unit	
Reverse Voltage	$V_{R}$	5	V	
DC Forward Current	$I_{\mathrm{F}}$	30	mA	
Power Dissipation	PD	123	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	-55 ~ +85	C	
Electrostatic Discharge Thres (HBM)	450	V		
Lead Solder Temperature [1.5mm Below Seating Plane.][1]		260°C For 5 Seconds		

Operating Characteristics (T <sub>A</sub> =25°C)		Green (InGaN)	Unit
Forward Voltage (Typ.) (I <sub>F</sub> =30mA)	$V_{\mathrm{F}}$	3.3	V
Forward Voltage (Max.) (I <sub>F</sub> =30mA)	$V_{\mathrm{F}}$	4.1	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_R$	50	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I <sub>F</sub> =30mA)	λР	520*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I <sub>F</sub> =30mA)	λD	525*	nm
Spectral Line Full Width At Half Maximum (Typ.) (I <sub>F</sub> =30mA)	$\triangle \lambda$	35	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	100	pF
Thermal Resistance (Typ.)	Rθj-pin	150	°C/W

- 1.No Reflow soldering.
- 2.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)

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I <sub>F</sub> =30mA) cd	Luminous Flux CIE127-2007* (I <sub>F</sub> =30mA) lm	Wavelength CIE127-2007* λP nm	Viewing Angle 20 1/2
			•	main tran	+ r r r		

				min.	typ.	typ.		
XSM2DG983W	Green	InGaN	Water Clear	3.6*	5.99*	6.3*	520*	40°

- 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.

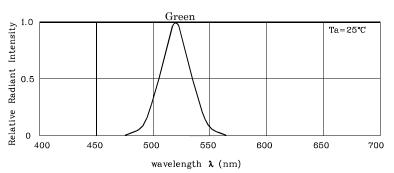
Oct 10,2016 XDSB7672 V2-Z Layout: Maggie L.



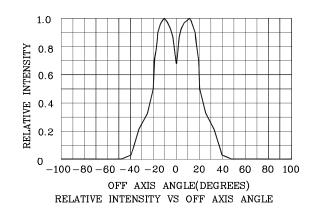




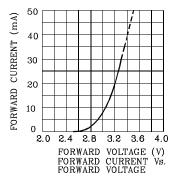
SUPER FLUX LED LAMP



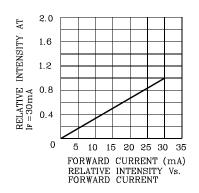
RELATIVE INTENSITY Vs. CIE WAVELENGTH

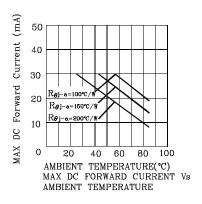


#### Green

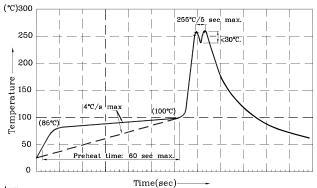


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Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



- Roces.

  1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- 2.Peak wave soldering temperature between 245°C  $\sim$  255°C for 3 sec (5 sec max)
- 3.Do not apply stress to the epoxy resin while the temperature is above 85°C. 4. Fixtures should not incur stress on the component when mounting and during soldering process.
  5. SAC 305 solder alloy is recommended.
  6. No more than one wave soldering pass.

#### 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:

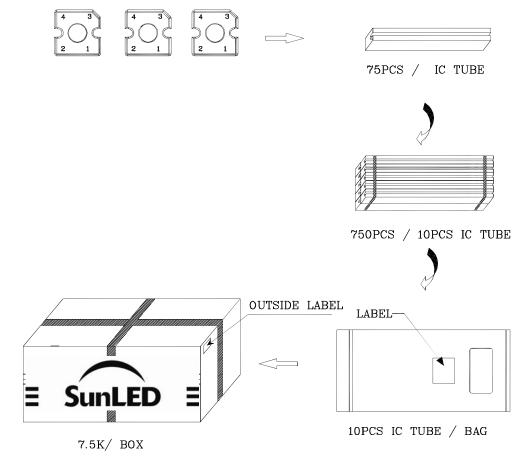
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

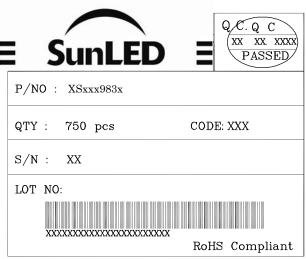
Note: Accuracy may depend on the sorting parameters.



SUPER FLUX LED LAMP

## PACKING & LABEL SPECIFICATIONS





#### TERMS OF USE

Oct 10,2016

- 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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- 6. Additional technical notes are available at <a href="http://www.SunLEDusa.com/TechnicalNotes.asp">http://www.SunLEDusa.com/TechnicalNotes.asp</a>

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