

## Part Number: XZM2CRKM2DG45WT-9

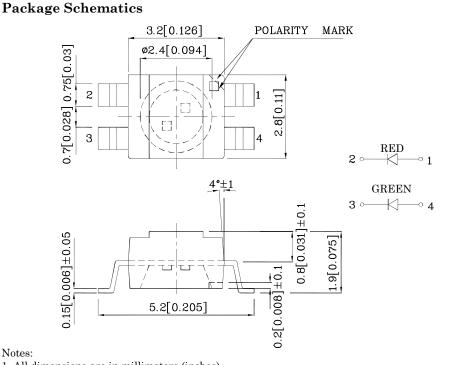
3.2x2.8mm PLCC4 SMD LED

## 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.







1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.2 (0.008")$  unless otherwise noted.

3. Specifications are subject to change without notice.

Water Clear

1000

1000\*

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		Red (AlGaInP)	Green (InGaN)	Unit
Reverse Voltage	VR	5	5	v
Forward Current	$I_{\rm F}$	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\rm FS}$	150	100	mA
Power Dissipation	$\mathbf{P}_{\mathrm{D}}$	84	120	mW
Electrostatic Discharge Thresh- old (HBM)		3000	450	v
Operating Temperature	TA	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		

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

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Operating Charact (T <sub>A</sub> =25°C)	eristics		Red (AlGaInP)	Green (InGaN)	Unit
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)		V <sub>F</sub>	2.2	3.2	v
Forward Voltage (Max.) (I <sub>F</sub> =20mA)		V <sub>F</sub>	2.8	4	v
Reverse Current (Max.) (V <sub>R</sub> =5V)		$I_{R}$	10	50	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)		λP	640*	520*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)		λD	625*	525*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)		$ riangle\lambda$	20	35	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)		С	27	100	pF
Lens-color	Luminous CIE127 (I <sub>F</sub> =20 mc	-2007* ) )mA)	Waveler CIE127-2	Wavelength View CIE127-2007* An nm λP 2θ	
	min.	typ.			
	1000 300*	1490 447*	640*	10	

1590

1590\*

\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. AUG 09,2016

Emitting

Color

Red

Green

Emitting

Material

AlGaInP

InGaN

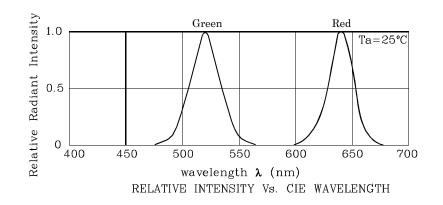
XDSB8751 V1-X Layout: Maggie L.

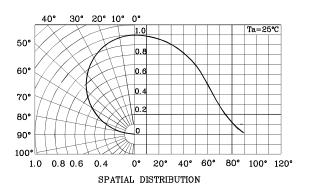
520\*

120°

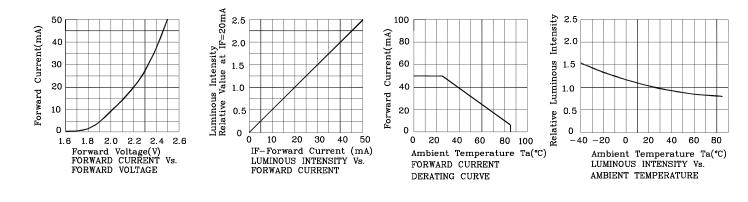


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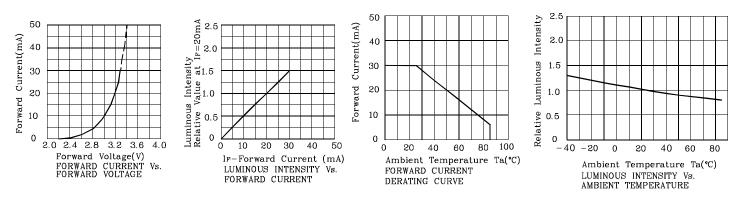




Red



Green





300 (°C)

250

200

150

100

80

Notes

З.

Temperature

3.2x2.8mm PLCC4 SMD LED

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

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

4°C/s

80~120

100

high temperatures conditions

Tim

2. Recommended reflow temperature: 145°C-260°C

Do not put stress to the epoxy resin during

150

Maximum soldering temperature should not exceed 260°C

200

150~180°C

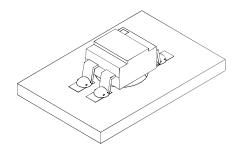
4℃/s max

10 s

C/s

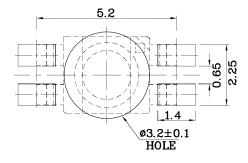
250

300 (sec) The device has a single mounting surface. The device must be mounted according to the specifications.

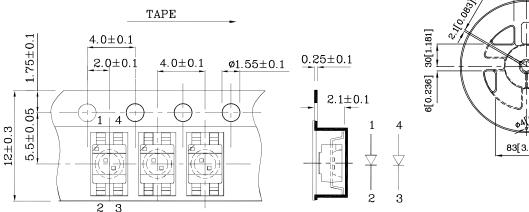


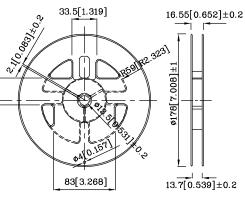
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

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%

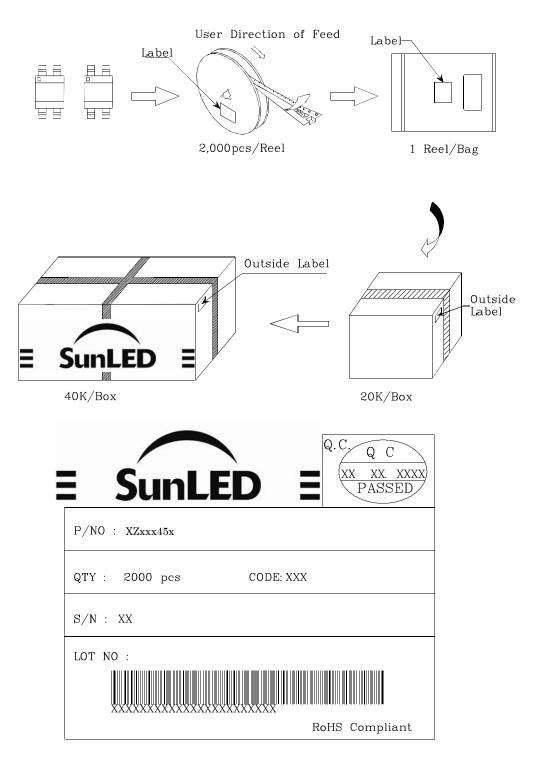
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



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# **PACKING & LABEL SPECIFICATIONS**



#### TERMS OF USE

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- 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 http://www.SunLEDusa.com/TechnicalNotes.asp

AUG 09,2016