

Part Number: XZCWD53F-3

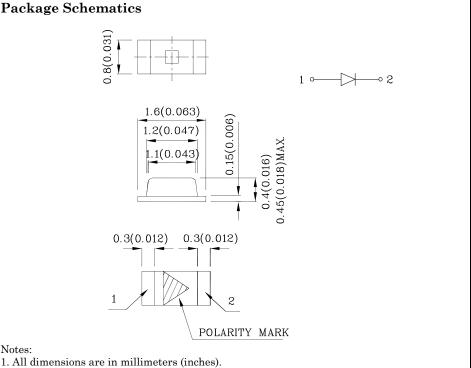
1.6x0.8mm SMD CHIP LED LAMP

Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- \bullet RoHS compliant







2.Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)	CWD (InGaN)	Unit			
Reverse Voltage	V_{R}	5	V		
Forward Current	$I_{\rm F}$	30	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\rm FS}$	150	mA		
Power Dissipation	PD	120	mW		
Electrostatic Discharge Threshold (H	250	V			
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C		
Storage Temperature	Tstg	-40 ~ +85	-0		

Operating Characteristics (T _A =25°C)	CWD (InGaN)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	3.3	V
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	4	V
Reverse Current (Max.) (V _R =5V)	I_R	50	uA
Chromaticity Coordinates	x	0.31	
(Тур.)	у	0.31	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	100	pF

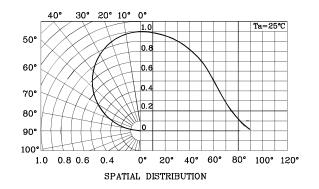
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Viewing Angle 20 1/2
				min.	typ.	
XZCWD53F-3	White	InGaN	Yellow Fluorescent	120*	248*	120°

*Luminous intensity value is in accordance with CIE127-2007 standards.

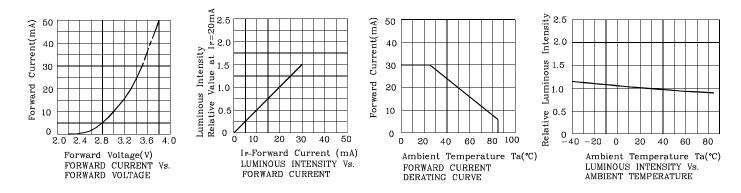
Feb 12,2014

XDSB0567 V7-Z Layout: Maggie L.





CWD



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

300 (°C) 10 s max 2097 250 4°C/s C/s max 200 150~180 4°C/s max 150 Temperature 30~50s 60~120s 100 50 0 150 0 50 100 200 250 300 (sec) Time Notes:

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

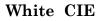
1. Maximum soldering temperature should not exceed 260°C

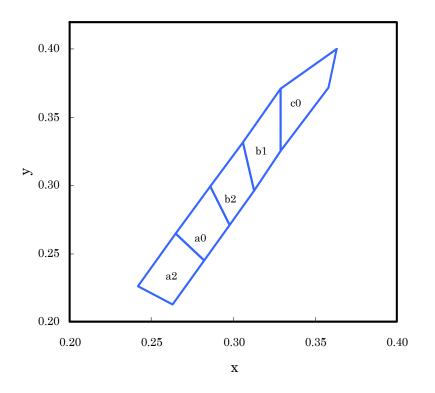
2. Recommended reflow temperature: 145°C-260°C Do not put stress to the epoxy resin during

З. high temperatures conditions



XZCWD53F-3





	X	У		х	У		х	У
a2	0.263	0.213	a0	0.282	0.245	b2	0.298	0.271
	0.282	0.245		0.298	0.271		0.313	0.296
	0.265	0.265		0.286	0.299		0.306	0.332
	0.242	0.226		0.265	0.265		0.286	0.299
b1	0.313	0.296	cO	0.329	0.325			
	0.329	0.325		0.358	0.372			
	0.329	0.371		0.363	0.400			
	0.306	0.332		0.329	0.371			

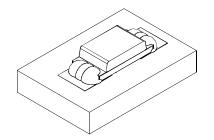
Notes:

Shipment may contain more than one chromaticity regions.

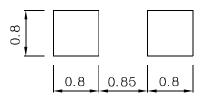
Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ± 0.01 .



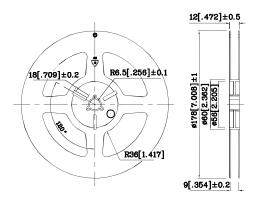
✤ The device has a single mounting surface. The device must be mounted according to the specifications.



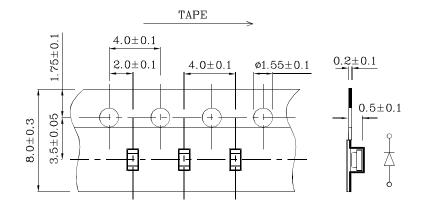
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension



Tape Specification (Units : mm)



Remarks:

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

the typical accuracy of the sorting process is as follows:

1. Measurement tolerance of the chromaticity coordinates is $\pm 0.01.$

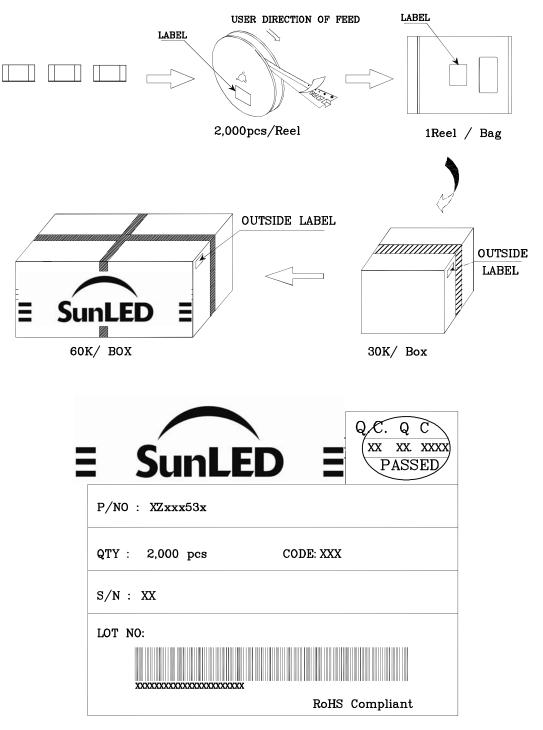
2. Luminous Intensity/ Luminous Flux: +/-15%

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



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
- 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. The 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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