

Part Number: XZFCWD14C

SURFACE MOUNT DISPLAY

Features

- 0.56 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 400pcs/ Reel • MSL (Moisture Sensitivity Level): 2a
- RoHS compliant

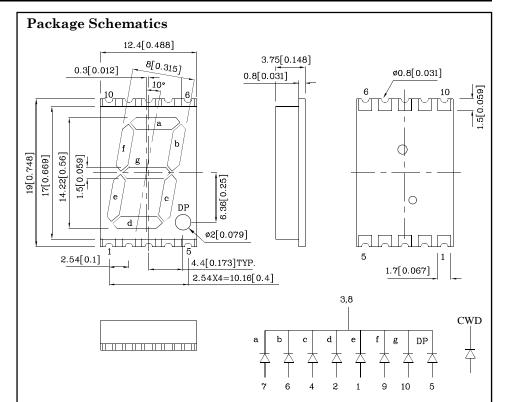






ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



Notes:

- 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
- 2. Specifications are subject to change without notice.
- 3. The gap between the reflector and PCB shall not exceed 0.25mm.

Luminous Intensity

Absolute Maximum Ratings (T _A =25°C)	CWD (InGaN)	Unit	
Reverse Voltage	V_{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}	120	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	
Electrostatic Discharge Thresho (HBM)	250	V	

Operating Characteristic (TA=25°C)	CWD (InGaN)	Unit	
Forward Voltage (Typ.) (IF=10mA)	V_{F}	3.0	V
Forward Voltage (Max.) (IF=10mA)	VF	4.0	V
Reverse Current (Max.) (VR=5V)	IR	50	uA
Chromaticity Coordinates	X	0.31	
(Typ.)	Y	0.31	
Capacitance (Typ.) (VF=0V, f=1MHz)	С	100	pF

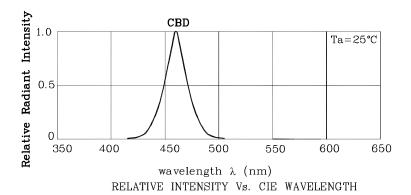
Part Number	Emitting Color	Emitting Material	CIE127-2007* (I _F =10mA) ucd		Description
			min.	typ.	
XZFCWD14C	White	InGaN	21000*	37990	Common Cathode, Rt. Hand Decimal.

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

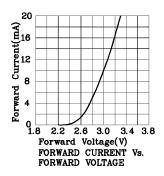
Jan 10,2014

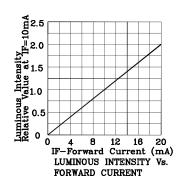


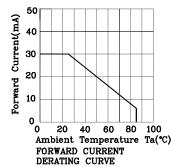


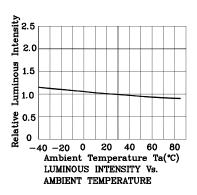


❖ CWD



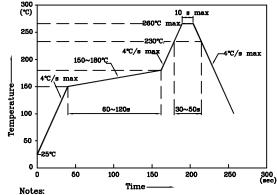






LED is recommended for reflow soldering and soldering profile is shown below.

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



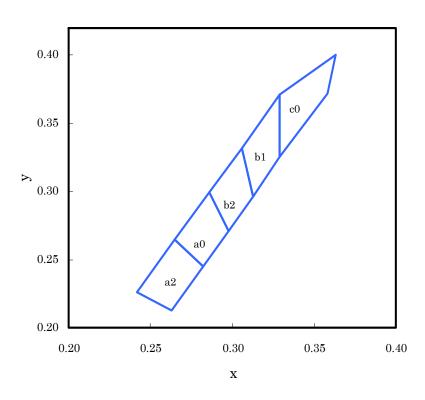
- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions





XZFCWD14C

White CIE



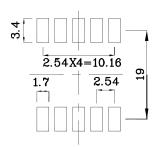
	X	У		X	У		X	У
	0.263	0.213	а0	0.282	0.245	b2	0.298	0.271
a2	0.282	0.245		0.298	0.271		0.313	0.296
	0.265	0.265		0.286	0.299		0.306	0.332
	0.242	0.226		0.265	0.265		0.286	0.299
b1	0.313	0.296	c0	0.329	0.325			
	0.329	0.325		0.358	0.372			
	0.329	0.371		0.363	0.400			
	0.306	0.332		0.329	0.371			

Notes:

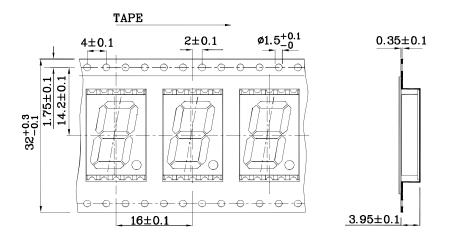
Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is $\pm 0.01.$

SURFACE MOUNT DISPLAY

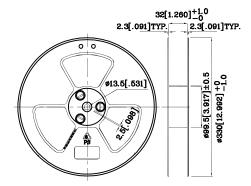
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ±0.15)



* Tape Specification (Units:mm)



❖ Reel Dimension



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:

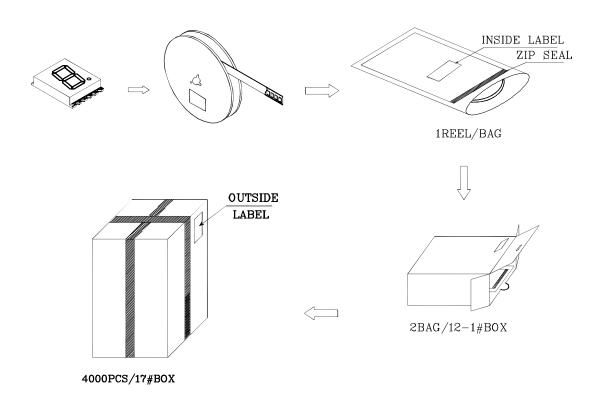
- 1. Measurement tolerance of the chromaticity coordinates is ± 0.01 .
- 2. Luminous Intensity/ Luminous Flux: +/-15%
- 3. Forward Voltage: \pm -0.1V

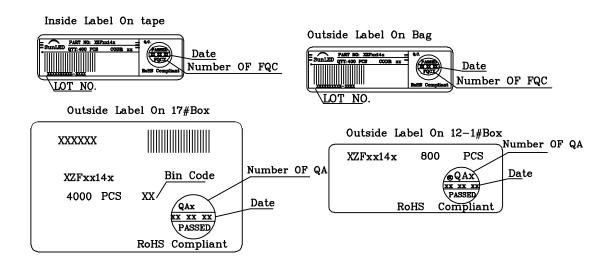
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





TERMS OF USE

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