

T-1 3/4 (5mm) LED LAMP WITH WEDGE BASE

Features

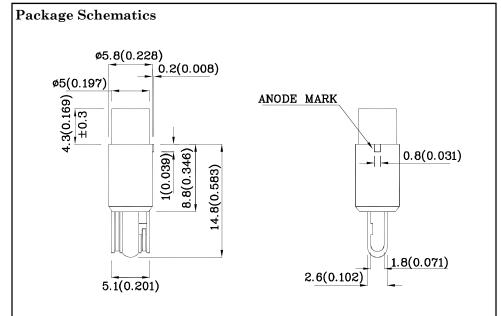
- Housing material: Type 66 Nylon
- Housing UL rating: 94V-0
- \bullet Reliable & robust
- •14V internal resistor.
- RoHS Compliant







ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



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°C)	FWS (InGaN)	Unit		
Reverse Voltage	V_{R}	5	V	
Forward Voltage	V_{F}	16	V	
Power Dissipation	P_{D}	160	mW	
Electrostatic Discharge Threshold (HBM)	250	V		
Operating Temperature	$T_{\rm A}$	T _A -40 ~ +70		
Storage Temperature	Tstg	-40 ~ +85	°C	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds			
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds			

Operating Characteristics (TA=25°C)		FWS (InGaN)	Unit
Forward Voltage (Typ.) (I _F =14V)	V_{F}	8.5	mA
Forward Voltage (Max.) (I _F =14V)	V_{F}	12	mA
Reverse Current (Max.) $(V_R=5V)$	I_R	50	uA
Chromaticity Coordinates	X	0.31	
(Typ.)	у	0.31	

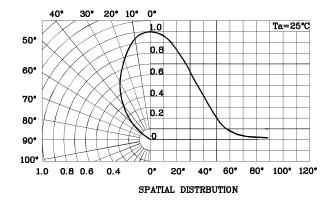
Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} \text{Luminous Intensity} \\ \text{CIE}127\text{-}2007* \\ \text{(V}_F\text{=}14\text{V)} \\ \text{mcd} \end{array}$		Viewing Angle 20 1/2
				min.	typ.	
XNZSFWS52W14V02	White	InGaN	Water Clear	300*	557*	70°

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

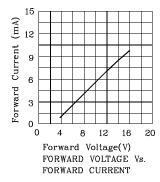
Dec 26,2013 XDSB4733 V2-Z Layout: Maggie L.

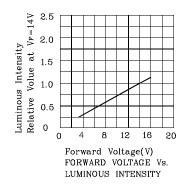


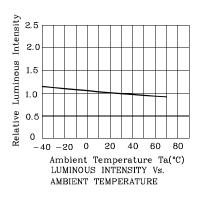




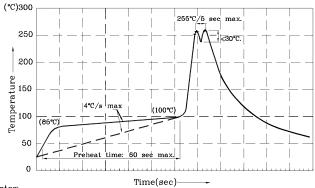
FWS







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



Notes: Notes. I. 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 $260^{\circ}C$ 2. Peak wave soldering temperature between $245^{\circ}C$ \sim $255^{\circ}C$ for 3 sec

(5 sec max).

 $3.\mathrm{Do}$ not apply stress to the epoxy resin while the temperature is above $85^{\circ}\mathrm{C}$. $4.\mathrm{Fixtures}$ 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 chromaticity),

the typical accuracy of the sorting process is as follows:

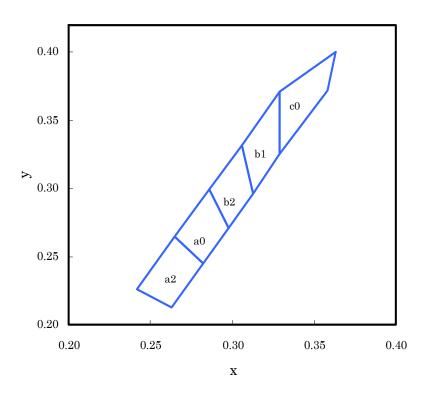
- 1. Measurement tolerance of the chromaticity coordinates is ± 0.02 .
- 2. Luminous Intensity / Luminous Flux: +/-15%

Note: Accuracy may depend on the sorting parameters.



XNZSFWS52W14V02

White CIE



	X	у		x	У		X	у
	0.263	0.213	a0	0.282	0.245	b2	0.298	0.271
a2	0.282	0.245		0.298	0.271		0.313	0.296
az	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			

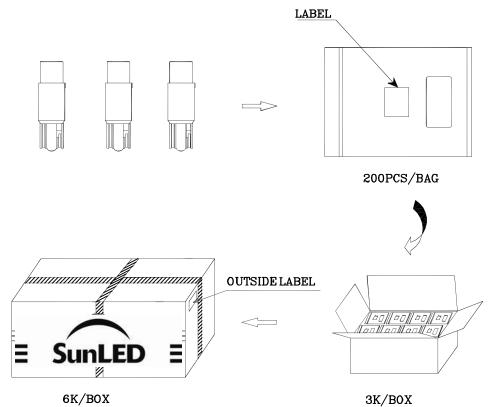
Notes:

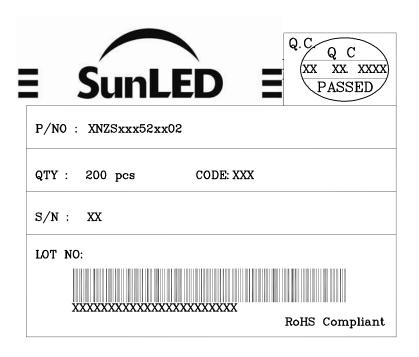
Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ± 0.02 .





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 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.
- $6.\ Additional\ technical\ notes\ are\ available\ at\ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$

Dec 26,2013 XDSB4733 V2-Z Layout: Maggie L.