



Features

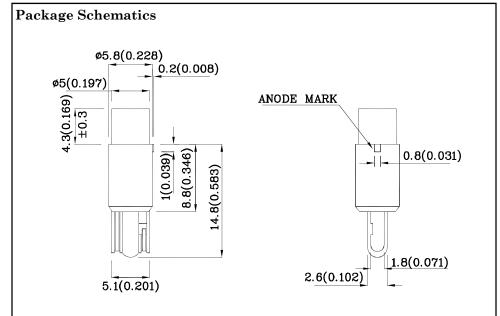
- Housing material: Type 66 Nylon
- Housing UL rating: 94V-0
- \bullet Reliable & robust
- •14V internal resistor.
- RoHS Compliant







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

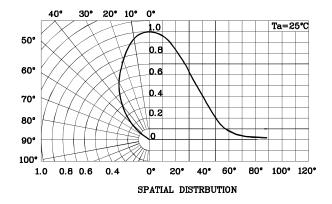
Operating Characteristics (TA=25°C)		FRS (InGaN)	Unit
Forward Voltage (Typ.) (I _F =14V)	V_{F}	8.5	mA
Forward Voltage (Max.) (I _F =14V)	V_{F}	12	mA
Reverse Current (Max.) $(V_R=5V)$	I_R	50	uA
Chromaticity Coordinates (Typ.)	X	0.51	
	у	0.42	

Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} {\rm Luminous\ Intensity} \\ {\rm CIE127\text{-}2007*} \\ {\rm (V_F\text{=}14V)} \\ {\rm mcd} \end{array}$		Viewing Angle 20 1/2
				min.	typ.	
XNZSFRS52WYSF14V02	Incandescent	InGaN	Water Clear	250*	447*	70°

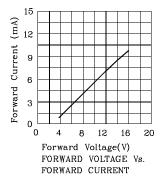
^{*}Luminous intensity value is in accordance with CIE127-2007 standards.

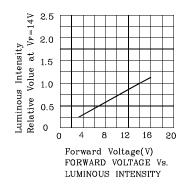


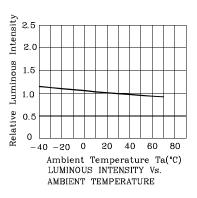




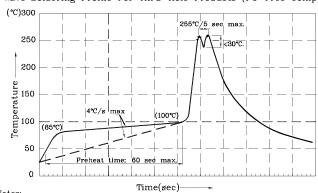
❖ FRS







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



- 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 (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 chromaticity),

the typical accuracy of the sorting process is as follows:

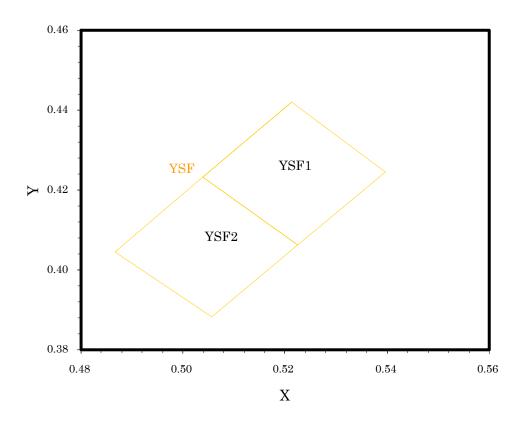
- 1. Measurement tolerance of the chromaticity coordinates is ± 0.02 .
- 2. Luminous Intensity / Luminous Flux: +/-15%

Note: Accuracy may depend on the sorting parameters.



XNZSFRS52WYSF14V02

CIE 1931



Bin code	x	\mathbf{y}	Bin code	x	\mathbf{y}
	0.5212	0.4220		0.5038	0.4232
	0.5038	0.4232		0.4866	0.4045
YSF1	0.5225	0.4063	YSF2	0.5055	0.3882
	0.5396	0.4246		0.5225	0.4063
	0.5212 0.4220		0.5038	0.4232	

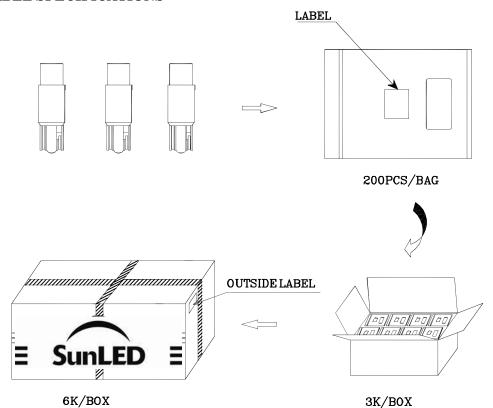
Notae.

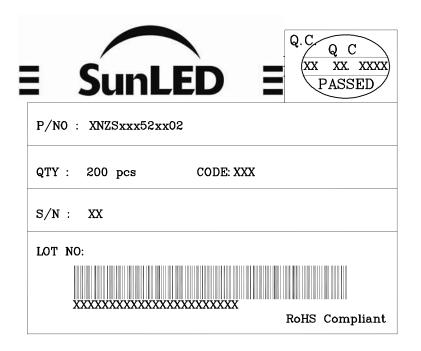
Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ± 0.02 .





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

XDSB7662 V1-Z Layout: Maggie L.