



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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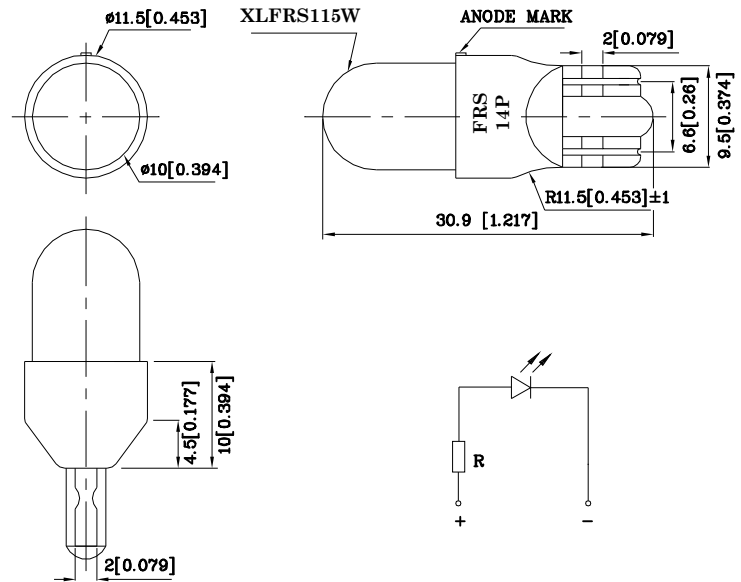
### Features

- Long life and robust package
- Low power consumption
- Vibration resistant
- 14V internal resistor
- RoHS Compliant



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

### Package Schematics



Notes:

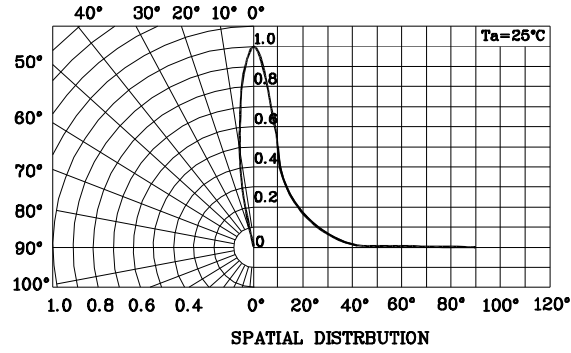
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25 (0.01)$  unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ )		FRS (InGaN)	Unit
Reverse Voltage	VR	5	V
Forward Voltage	VF	16	V
Power Dissipation	PD	320	mW
Operating Temperature	TA	-40 ~ +70	°C
Storage Temperature	Tstg	-40 ~ +85	
Electrostatic Discharge Threshold (HBM)		250	v

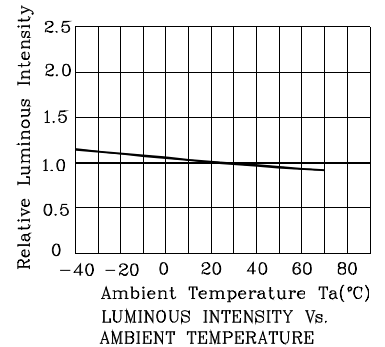
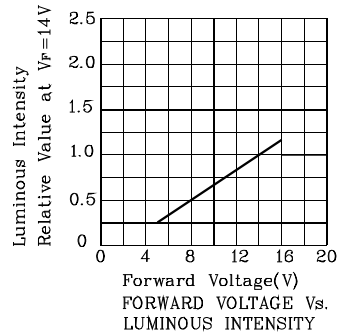
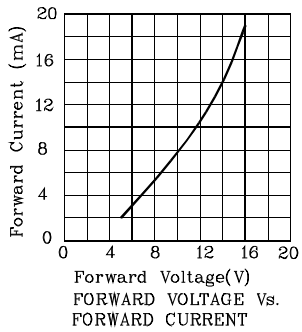
Operating Characteristics ( $T_A=25^\circ\text{C}$ )		FRS (InGaN)	Unit
Forward Current (Typ.) ( $V_F=14\text{V}$ )	IF	14	mA
Forward Current (Max.) ( $V_F=14\text{V}$ )	IF	20	mA
Reverse Current (Max.) ( $V_R=5\text{V}$ )	IR	50	uA
Chromaticity Coordinates (Typ.)	X	0.51	
	Y	0.42	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* ( $V_F=14\text{V}$ ) med		Viewing Angle 20 1/2
				min.	typ.	
XYWFRS101WYSF14V	Incandescent	InGaN	Water Clear	6000*	8990*	20°

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

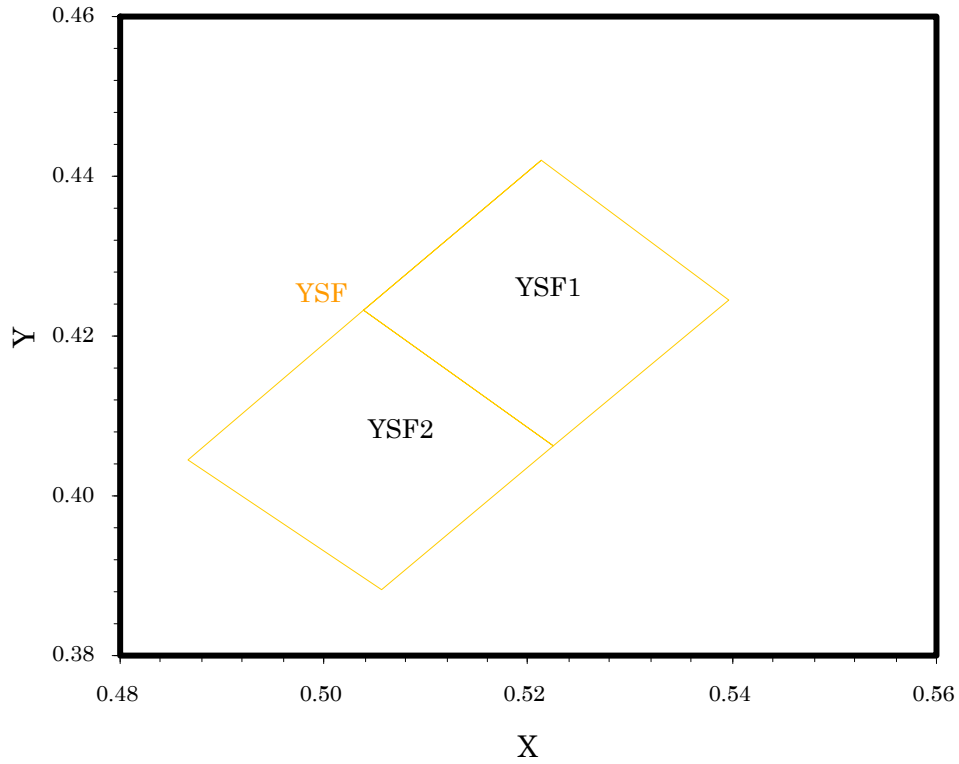


❖ FRS



XYWFRS101WYSF14V

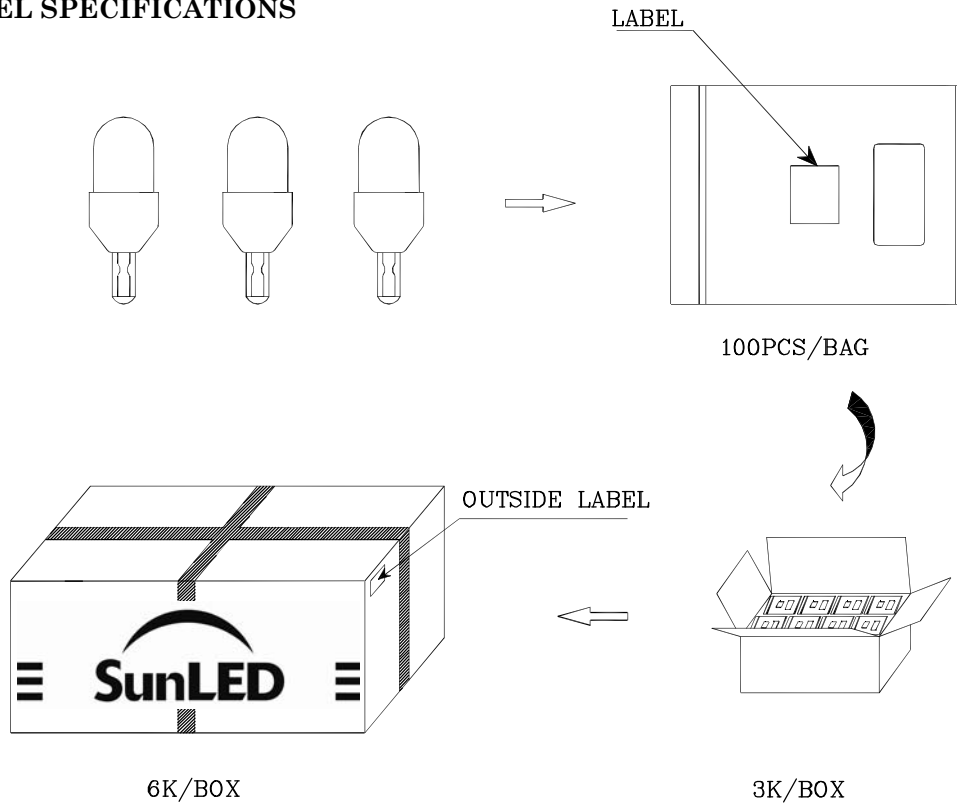

CIE 1931





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

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  $\pm 0.02$ .

**PACKING & LABEL SPECIFICATIONS**

	<table border="1" style="margin: auto;"> <tr><td>Q.C</td></tr> <tr><td>Q C</td></tr> <tr><td>XX XX XXXX</td></tr> <tr><td>PASSED</td></tr> </table>	Q.C	Q C	XX XX XXXX	PASSED
Q.C					
Q C					
XX XX XXXX					
PASSED					
P/NO : XYWxxx101x					
QTY : 100 pcs	CODE: XXX				
S/N : XX					
LOT NO:					
 xxxxxxxxxxxxxxxxxxxxxxxx					
RoHS Compliant					

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2. Contents within this document are subject to improvement and enhancement changes without notice.
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