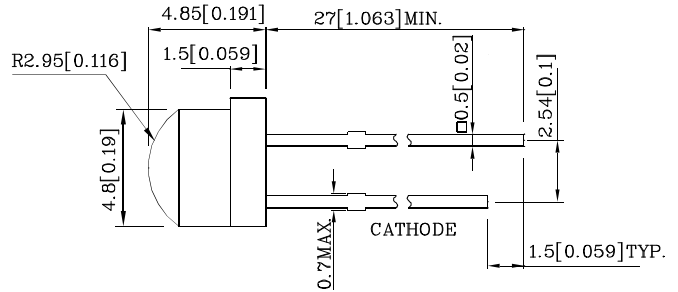
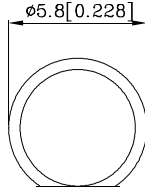


Features

- High luminous emission
- Low power consumption.
- General purpose leads.
- Reliable and rugged.
- Long life - solid state reliability.
- RoHS compliant.



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.



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

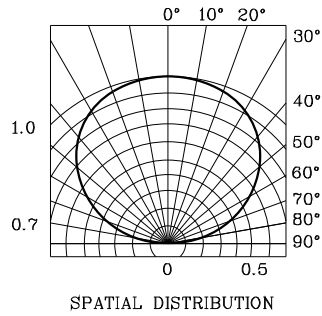
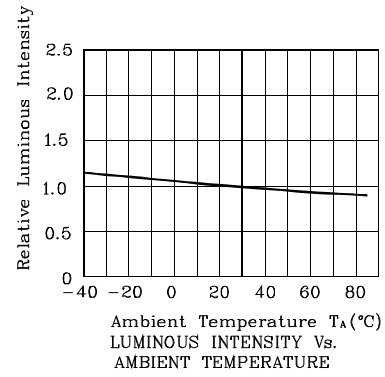
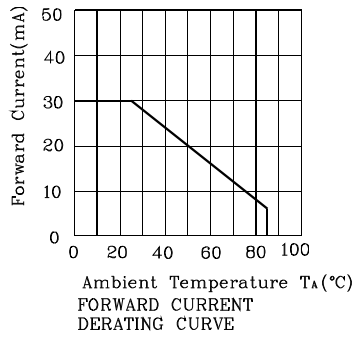
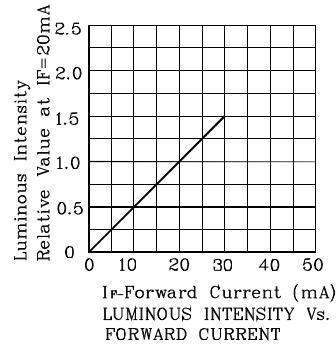
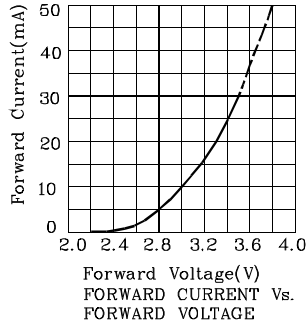
Absolute maximum ratings ($T_A=25^\circ\text{C}$)		FRS (InGaN)	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	100	mA
Power Dissipation	P_D	120	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	
Lead 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 ($T_A=25^\circ\text{C}$)		FRS (InGaN)	Unit
Forward Voltage (Typ.) ($I_F=20\text{mA}$)	V_F	3.3	V
Forward Voltage (Max.) ($I_F=20\text{mA}$)	V_F	4.0	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	50	μA
Chromaticity Coordinates (Typ.)	x	0.51	
	y	0.42	
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	100	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ($I_F=20\text{mA}$) med	Viewing Angle 2θ 1/2
				min.	typ.
XL169W-EP22	Yellow	InGaN	Water Clear	700	1295
					130°

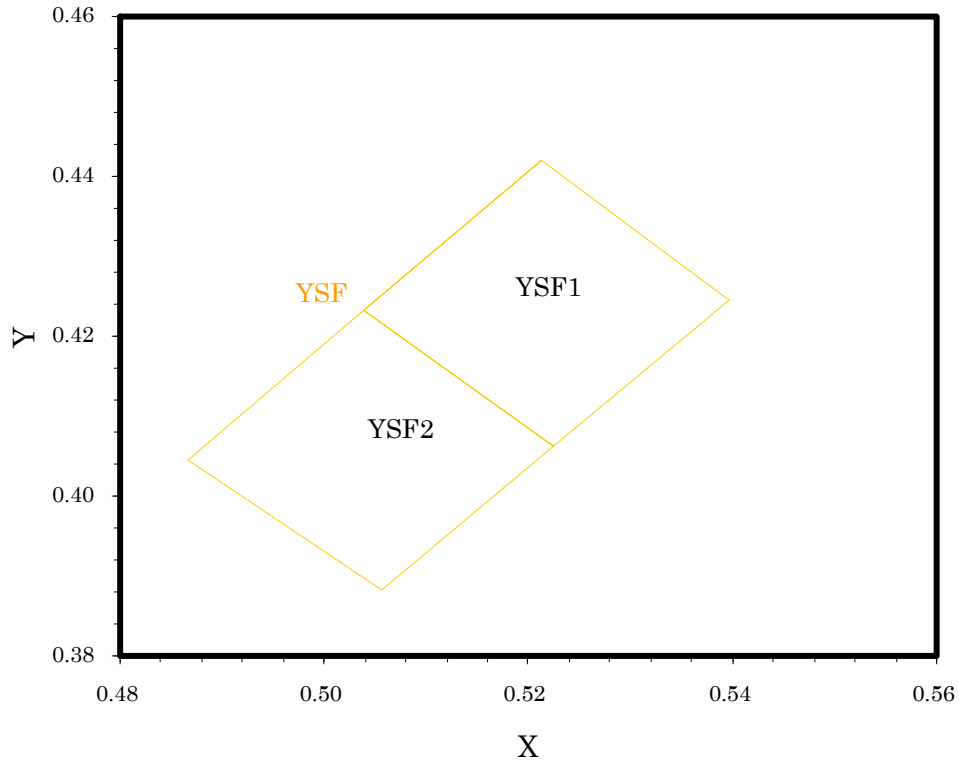


❖ FRS



XL169W-EP22

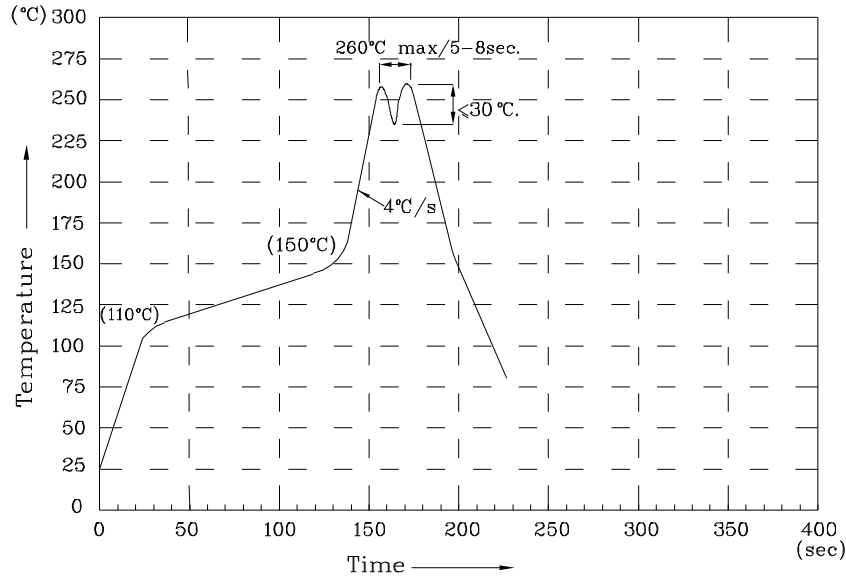
CIE 1931



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 ± 0.02 .

Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

1. Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
2. Do not apply stress on epoxy resins when temperature is over 85 degree°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. No more than once.

Remarks:

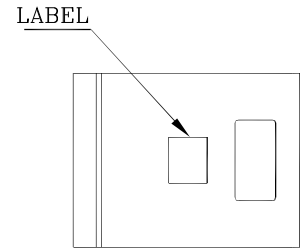
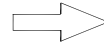
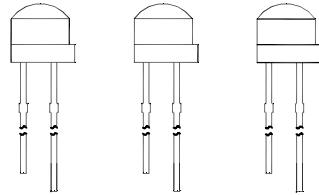
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity/ luminous flux, or chromaticity), the typical accuracy of the sorting process is as follows:

1. Measurement tolerance of the chromaticity coordinates is ± 0.02 .
2. Luminous intensity/ luminous flux: $\pm 15\%$.
3. Forward Voltage: $\pm 0.1V$.

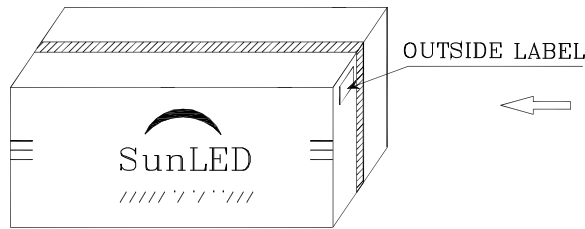
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

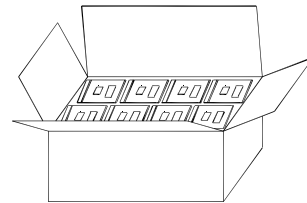
XL169W-EP22



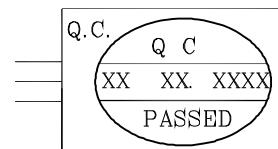
500 PCS / BAG




20K / BOX



10K / BOX



P/NO : XL169xxx	
QTY : 500 pcs	CODE: XXX
S/N : XX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	