

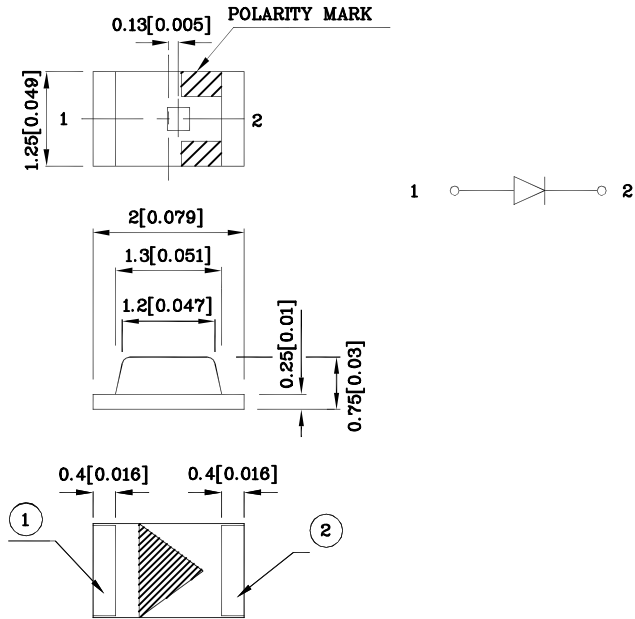
Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics



Notes:

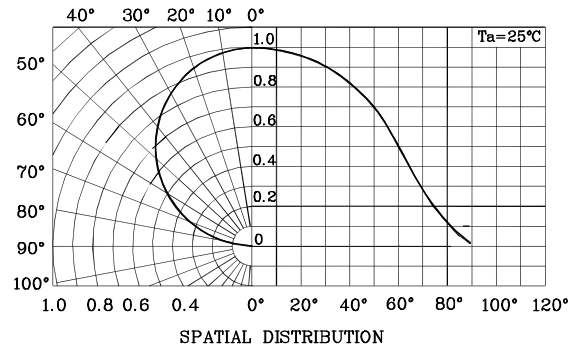
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.1 (0.004") unless otherwise noted.
3. Specifications are subject to change without notice.

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
Electrostatic Discharge Threshold (HBM)		250	V
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	

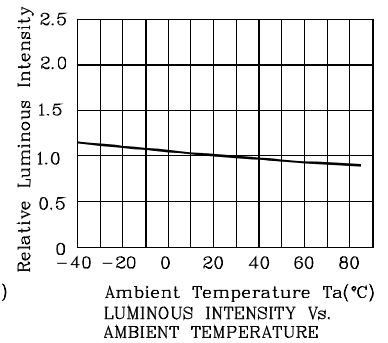
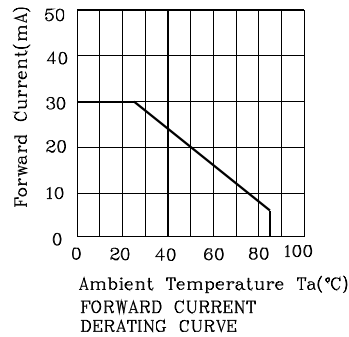
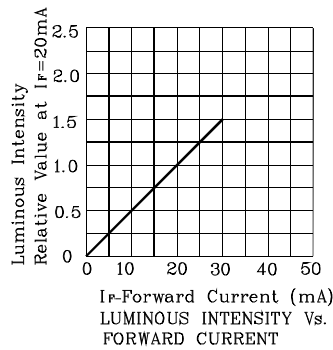
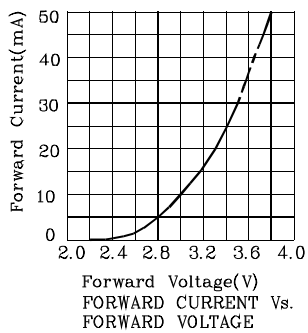
Operating Characteristics (T _A =25°C)		CWD (InGaN)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	3.3	V
Forward Voltage (Max.) (I _F =20mA)	V _F	4	V
Reverse Current (Max.) (V _R =5V)	I _R	50	uA
Chromaticity Coordinates (Typ.)	x	0.31	
	y	0.31	
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	100	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) med		Viewing Angle 2θ 1/2
				min.	typ.	
XZCWD54F-1	White	InGaN	Yellow Fluorescent	120*	248*	120°

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

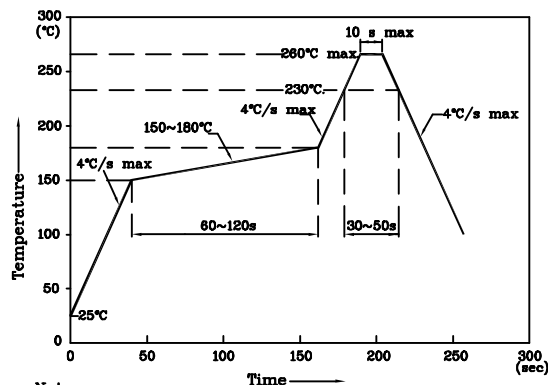


❖ CWD



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

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

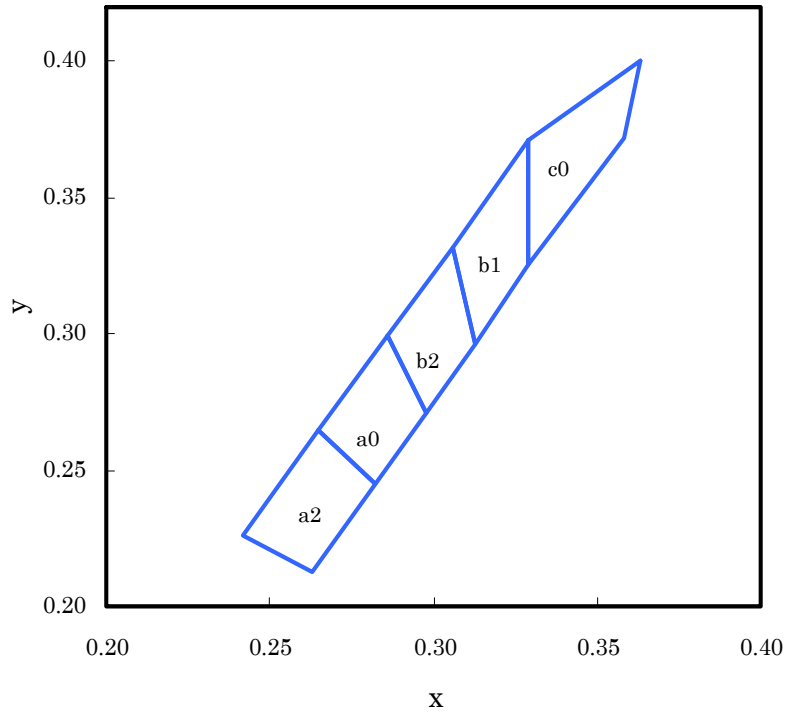


Notes:

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

XZCWD54F-1

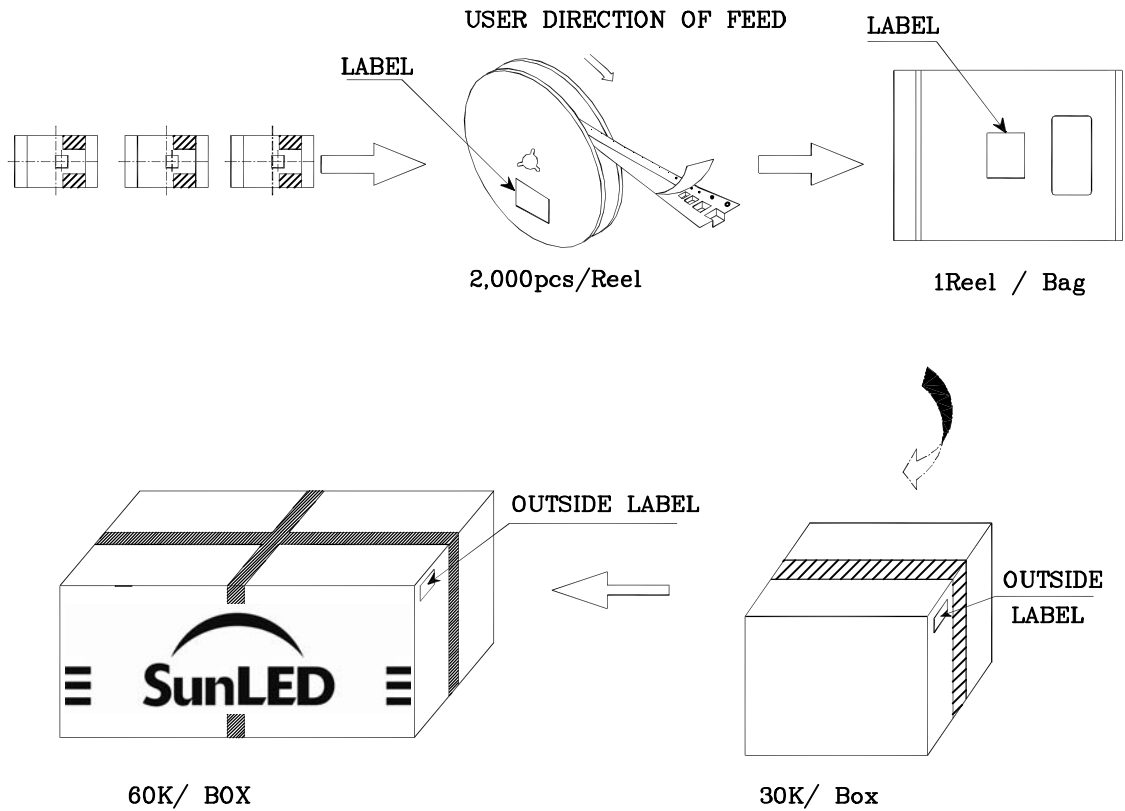
White CIE



a2			a0			b2		
x	y		x	y		x	y	
0.263	0.213		0.282	0.245		0.298	0.271	
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			c0					
x	y		x	y				
0.313	0.296		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 ± 0.01 .

PACKING & LABEL SPECIFICATIONS



P/NO : XZxxx54x		
QTY : 2,000 pcs	CODE: XXX	
S/N : XX		
LOT NO:		
RoHS Compliant		

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 <http://www.SunLEDusa.com/TechnicalNotes.asp>