SunLED
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Part Number: **XNZSCWD52W24V02**

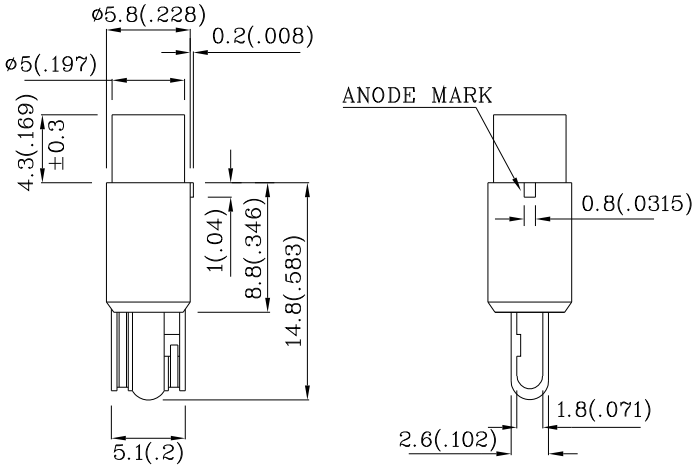
T-1 3/4 (5mm) 24V LED LAMP WITH WEDGE BASE

PRELIMINARY SPEC

Features

- Long life, solid state.
- With built-in resistor for 24V DC application.
- Wedge base, easy installation & replacement.
- Housing UL rating : 94V-0.
- Housing material: type 66 nylon.
- 24V internal resistor.
- RoHS compliant.

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



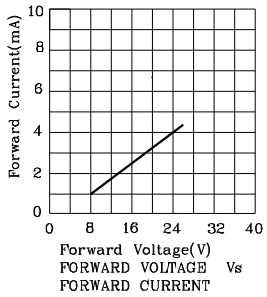
Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.
3.Specifications are subject to change without notice.

Absolute Maximum Ratings (T_A=25°C)		**CWD (InGaN)**	**Unit**
Reverse Voltage	V_R	5	V
Forward Voltage	V_F	26	V
Power Dissipation	P_D	130	mW
Operating Temperature	T_A	-40 ~ +70	°C
Storage Temperature	Tstg	-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		

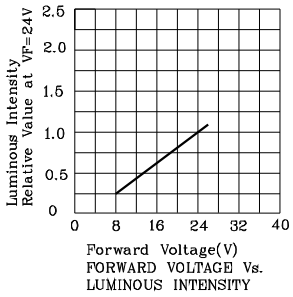
Operating Characteristics (T_A=25°C)		**CWD (InGaN)**	**Unit**
Forward Current (Typ.) (V_F=24V)	I_F	4	mA
Forward Current (Max.) (V_F=24V)	I_F	6	mA
Reverse Current (Max.) (V_R=5V)	I_R	10	uA
Chromaticity Coordinates (Typ.)	X	0.31	
	Y	0.31	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (V=24V) mcd		Viewing Angle 2 θ 1/2
				min.	typ.	
XNZSCWD52W24V02	White	InGaN	Water Clear	28	69	70°

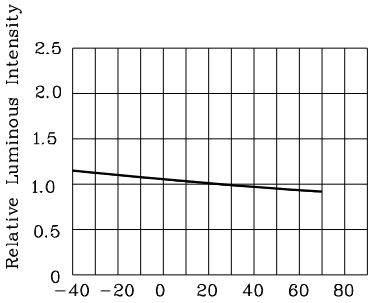
❖ **CWD**



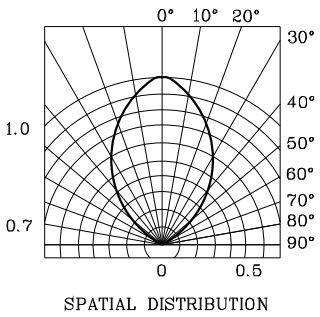
FORWARD VOLTAGE Vs
FORWARD CURRENT



FORWARD VOLTAGE Vs.
LUMINOUS INTENSITY



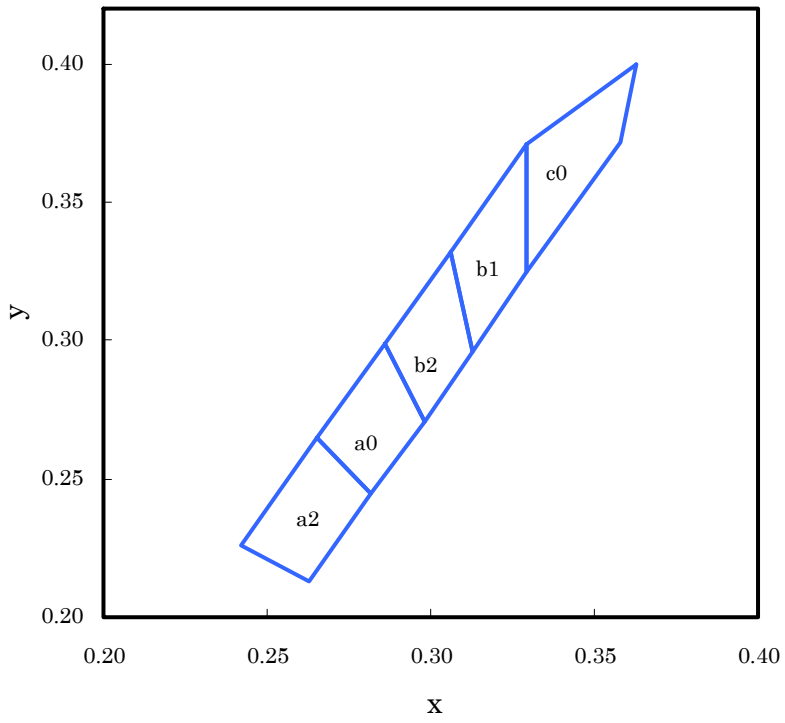
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

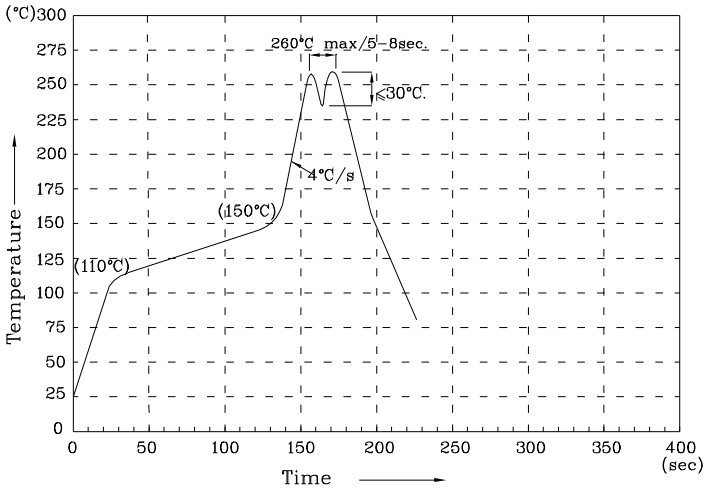
XNZSCWD52W24V02

White CIE



	x	y		x	y		x	y
a2	0.263	0.213	a0	0.282	0.245	b2	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	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			

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



NOTES:

1. Recommend the wave temperature 245℃~260℃. The maximum soldering temperature should be less than 260℃.
2. Do not apply stress on epoxy resins when temperature is over 85 degree℃.
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 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.

PACKING & LABEL SPECIFICATIONS XNZSCWD52W24V02