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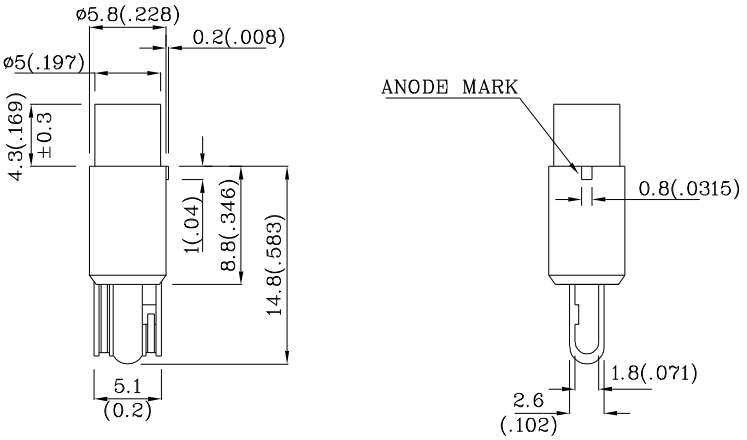
Part Number: **XNZSNWA52W24V02**

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

PRELIMINARY SPEC

Features

- LONG LIFE, SOLID STATE.
- WEDGE BASE, EASY INSTALLATION & REPLACEMENT.
- UL RATING : 94V-0.
- 24V INTERNAL RESISTOR.
- RoHS COMPLIANT.



ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Notes:

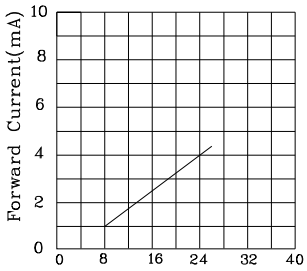
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.

Absolute Maximum Ratings (T_A=25°C)		**NWA (InGaN)**	**Unit**
Reverse Voltage	V_R	5	V
Forward Voltage	V_F	26	V
Power Dissipation	P_T	130	mW
Operating Temperature	T_A	-40 ~ +70	°C
Storage Temperature	Tstg	-40 ~ +85	
Electrostatic Discharge Threshold (HBM)		1000	V
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds		
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds		

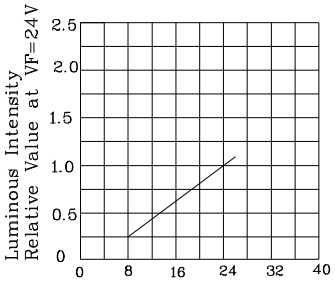
Operating Characteristics (T_A=25°C)		**NWA (InGaN)**	**Unit**
Forward Current (Typ.) (V_F=24V)	I_F	4	mA
Forward Current (Max.) (V_F=24V)	I_F	6	mA
Reverse Current (Max.) (V_R=5V)	I_R	10	uA
Chromaticity Coordinates (Typ.)	X	0.33	
	Y	0.34	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (V=24V) mcd		Viewing Angle 2 θ 1/2
				min.	typ.	
XNZSNWA52W24V02	White	InGaN	Water Clear	18	84	70°

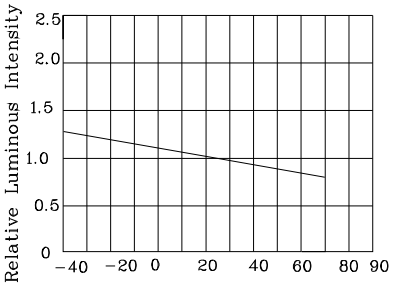
❖ NWA



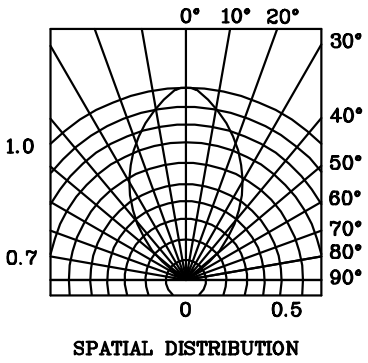
FORWARD VOLTAGE Vs
FORWARD CURRENT



FORWARD VOLTAGE Vs.
LUMINOUS INTENSITY

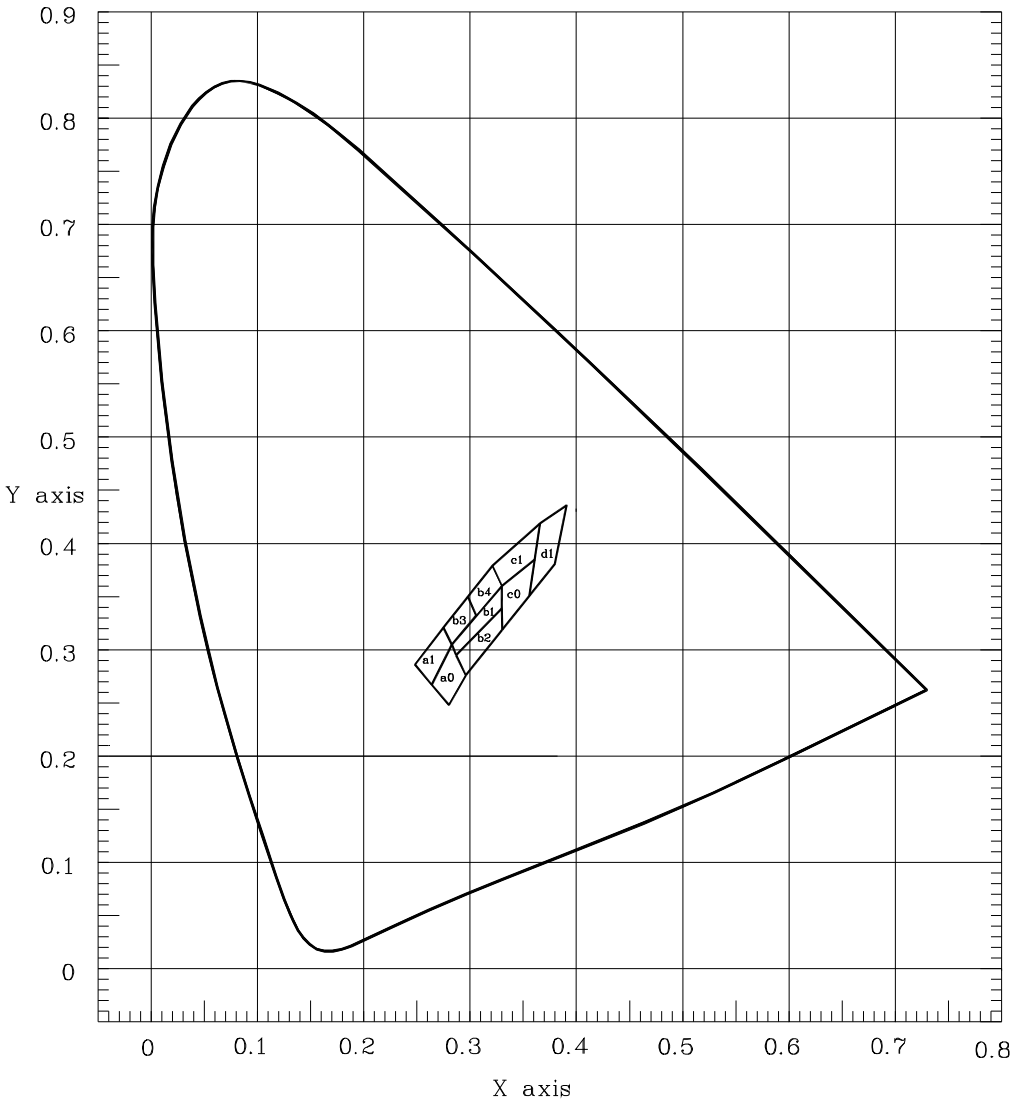


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

XNZSNWA52W24V02



a1				
X	0.248	0.275	0.283	0.264
Y	0.286	0.321	0.305	0.267

a0				
X	0.264	0.283	0.296	0.280
Y	0.267	0.305	0.276	0.248

b3				
X	0.275	0.298	0.306	0.283
Y	0.321	0.350	0.332	0.305

b1				
X	0.283	0.330	0.330	0.287
Y	0.305	0.360	0.339	0.295

b2				
X	0.287	0.330	0.330	0.296
Y	0.295	0.339	0.318	0.276

b4				
X	0.298	0.321	0.330	0.306
Y	0.350	0.379	0.360	0.332

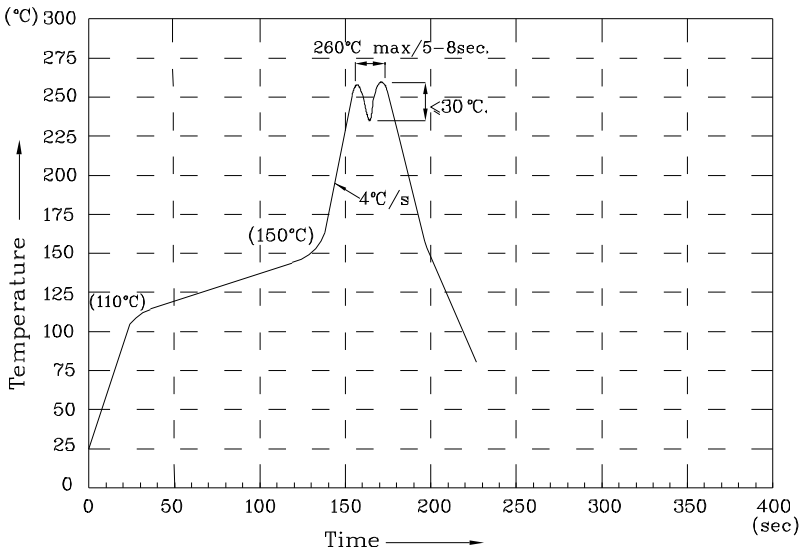
c1				
X	0.321	0.366	0.361	0.330
Y	0.379	0.419	0.385	0.360

c0				
X	0.330	0.361	0.356	0.330
Y	0.360	0.385	0.351	0.318

d1				
X	0.366	0.391	0.380	0.356
Y	0.419	0.436	0.381	0.351

Ta=25°, IF=20mA Measurement Uncertainty of the Color Coordinates: +/−0.01

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 wavelength),

the typical accuracy of the sorting process is as follows:

1. Chromaticity Coordinates X, Y: +/-0.01.

2. Luminous intensity/ luminous flux: +/-15%.

Note: Accuracy may depend on the sorting parameters.