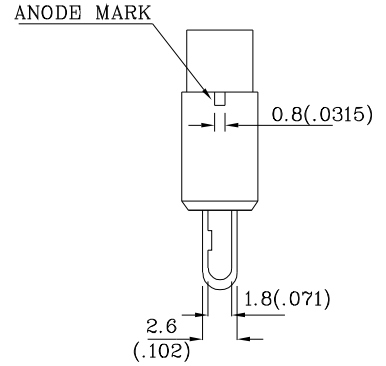
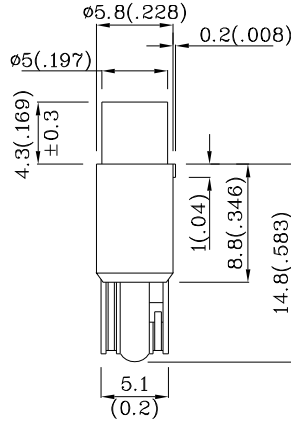


PRELIMINARY SPEC

**Features**

- LONG LIFE, SOLID STATE.
- WEDGE BASE, EASY INSTALLATION & REPLACEMENT.
- UL RATING : 94V-0.
- 5V INTERNAL RESISTOR.
- RoHS COMPLIANT.



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

Notes:

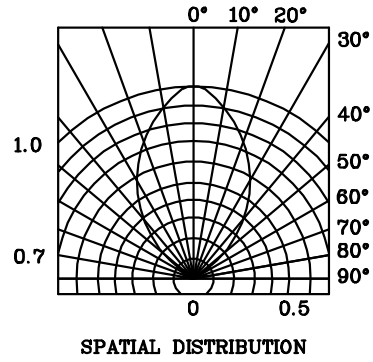
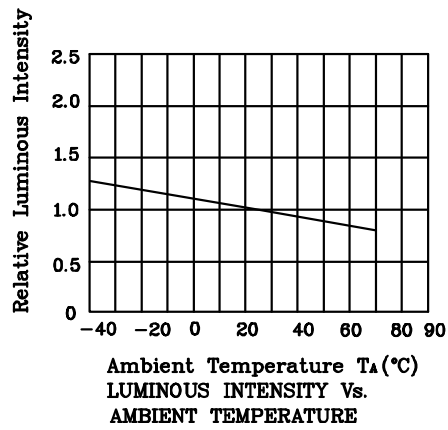
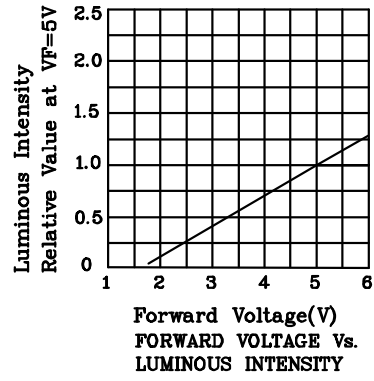
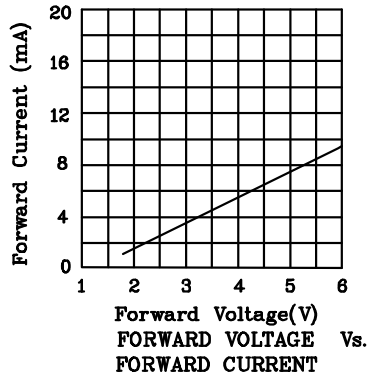
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$ " unless otherwise noted.

Absolute Maximum Ratings (TA=25°C)		NWA (InGaN)	Unit
Reverse Voltage	VR	5	V
Forward Current	VF	6	V
Power Dissipation	PT	85	mW
Operating Temperature	TA	-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		

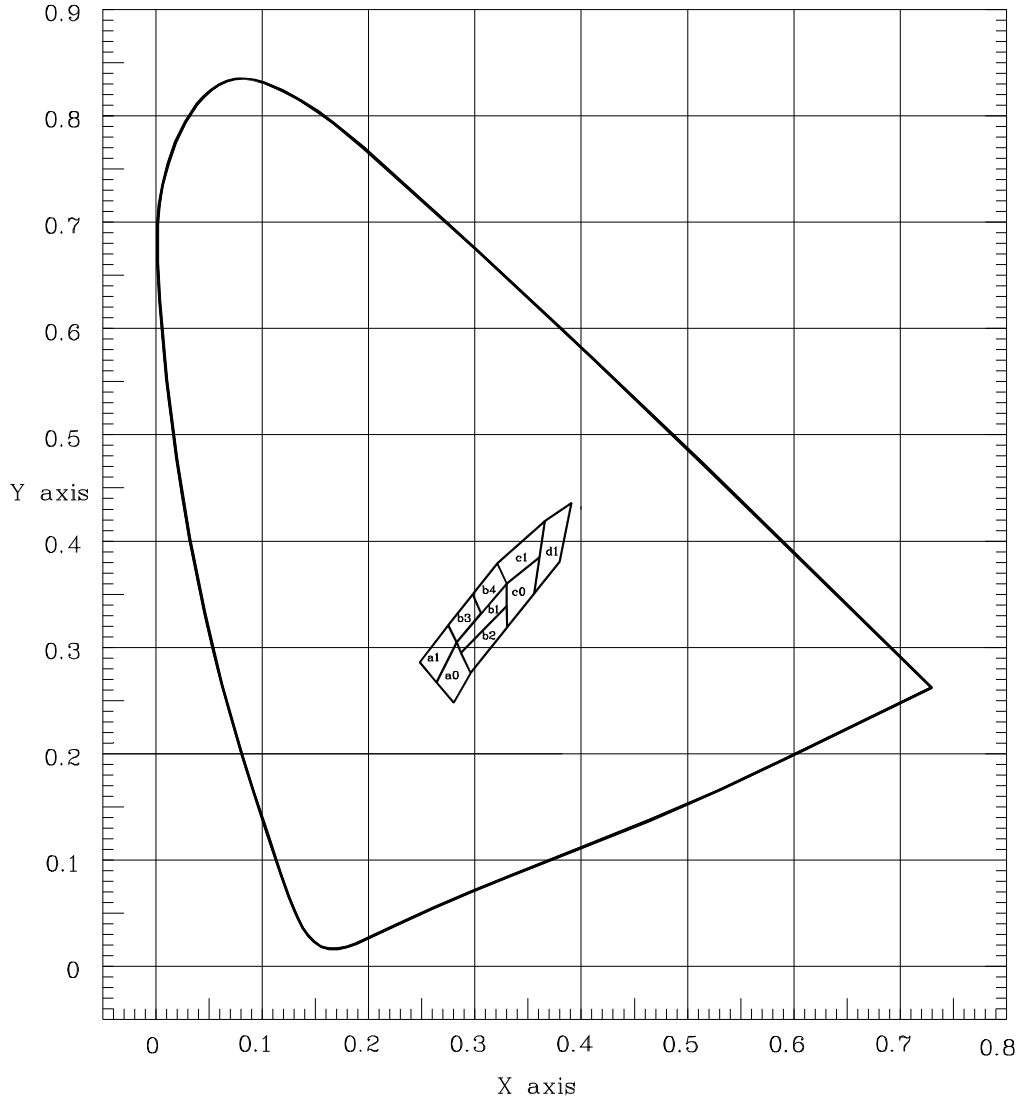
Operating Characteristics (TA=25°C)		NWA (InGaN)	Unit
Forward Current (Typ.) (VF=5V)	IF	7.5	mA
Forward Current (Max.) (VF=5V)	IF	10	mA
Reverse current (Max.) (VR=5V)	IR	10	uA
Chromaticity Coordinates (Typ.)	X	0.33	
	Y	0.34	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (V=5V) mcd	Viewing Angle 2θ 1/2
				min.      typ.	
XNZSNWA52W5V02	White	InGaN	Water Clear	40      148	70°

❖ NWA



**XNZSNWA52W5V02**



a1				
X	0.248	0.275	0.283	0.264
Y	0.286	0.321	0.305	0.267
b1				
X	0.283	0.330	0.330	0.287
Y	0.305	0.360	0.339	0.295
c1				
X	0.321	0.366	0.361	0.330
Y	0.379	0.419	0.385	0.360

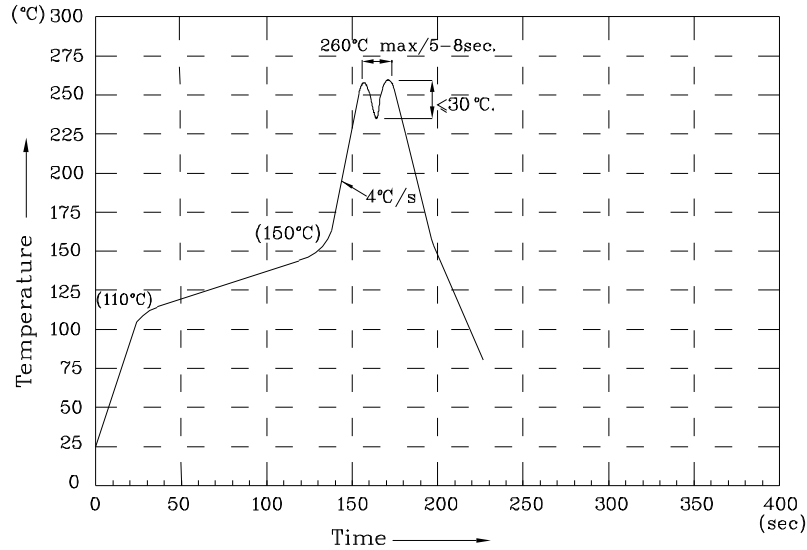
a0				
X	0.264	0.283	0.296	0.280
Y	0.267	0.305	0.276	0.248
b2				
X	0.287	0.330	0.330	0.296
Y	0.295	0.339	0.318	0.276
c0				
X	0.330	0.361	0.356	0.330
Y	0.360	0.385	0.351	0.318

b3				
X	0.275	0.298	0.306	0.283
Y	0.321	0.350	0.332	0.305
b4				
X	0.298	0.321	0.330	0.306
Y	0.350	0.379	0.360	0.332
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°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 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.