

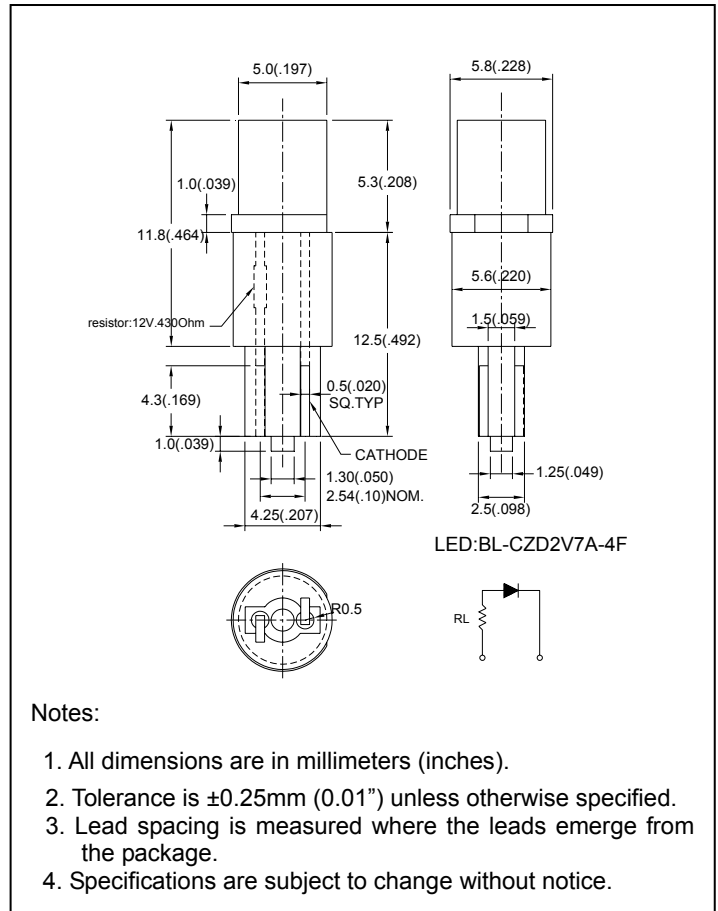
● Features:

1. Chip material: InGaN
2. Emitted color : White
3. Lens Appearance : White Diffused
4. For DC and pulse operation.
5. With current limiting resistor for 12V
6. TTL & CMOS compatible.
7. Reliable and rugged.
8. Internal Resistor 430Ω
9. This product don't contained restriction substance, compliance ROHS standard.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package Dimensions:



● Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Power Dissipation	P_d	120	mW
Peak Forward Current* ¹	I_{FP}	150	mA
Operating Temperature	T_{opr}	$-40^\circ\text{C} \sim 80^\circ\text{C}$	
Storage Temperature	T_{stg}	$-40^\circ\text{C} \sim 85^\circ\text{C}$	
Soldering Temperature	T_{sol}	260°C (for 5 seconds)	

● **Electrical and optical characteristics(Ta=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Current	I_F	$V_F=12V$	-	8	12	mA
Luminous Intensity	I_v	$V_F=12V$	-	400	-	mcd
Chromatically Coordinates(note 4)	X	$I_F=20mA$	-	0.32	-	nm
	Y	$I_F=20mA$	-	0.31	-	nm
Spectral Line Half-width	$\Delta \lambda$	$V_F=12V$	-	30	-	nm
Viewing Angle	$2\theta_{1/2}$	$V_F=12V$	-	85	-	deg

● **Typical electro-optical characteristics curves**

Fig.1 Relative intensity vs. Wavelength

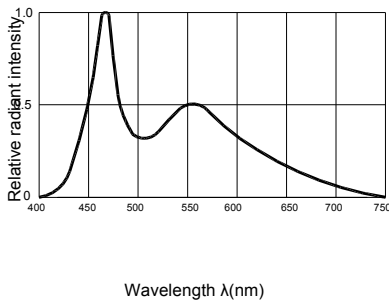


Fig.2 Forward current derating curve vs. Ambient temperature

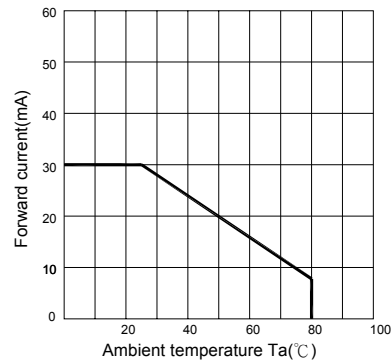


Fig.4 Relative luminous intensity vs. Ambient temperature

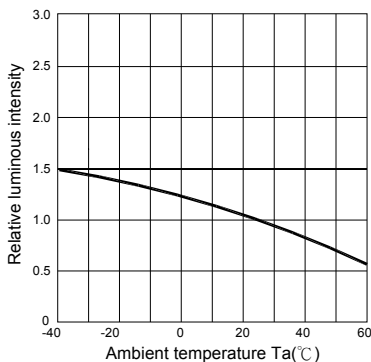
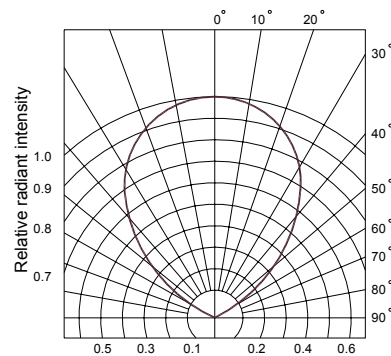


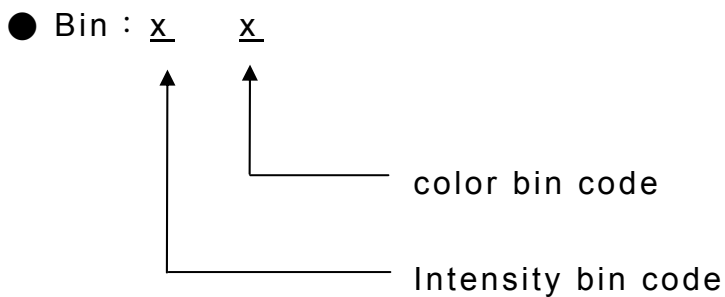
Fig.6 Radiation diagram



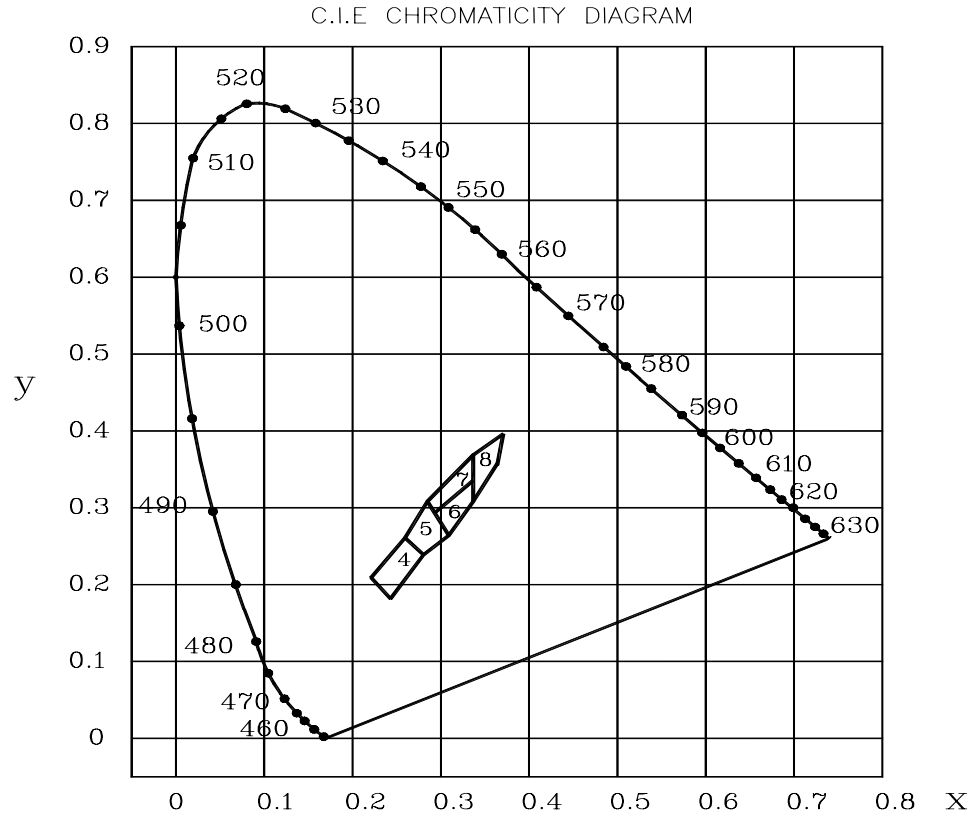
● **Bin Limits**

1. Intensity bin limits (At $I_F = 20\text{mA}$)

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
R	120	240
S	180	360
T	280	550
U	410	820
V	620	1230
:	:	:



2. Color Bin Limits (nm at 20mA)



Bin	Chromaticity coordinates				
	x	y	x	y	
4	x	0.245	0.225	0.260	0.279
	y	0.190	0.215	0.262	0.242
5	x	0.279	0.260	0.283	0.305
	y	0.242	0.262	0.305	0.265
6	x	0.305	0.287	0.330	0.330
	y	0.265	0.295	0.339	0.305
7	x	0.287	0.283	0.330	0.330
	y	0.295	0.305	0.360	0.339
8	x	0.330	0.330	0.361	0.356
	y	0.305	0.360	0.385	0.351