

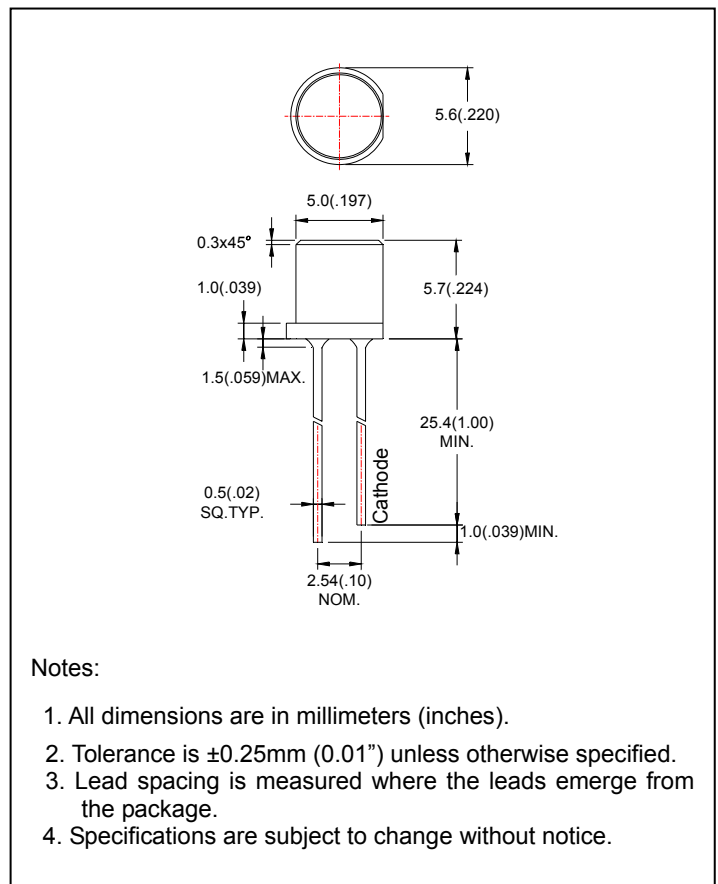
### ● Features:

1. Chip material: AlInGaN
2. Emitted color : Super Blue
3. Lens Appearance : Blue Trans
4. Cylindrical shape.
5. Low power consumption.
6. Compatible
7. Long life solid state reliability.
8. 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(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	120	mW
Forward Current	I <sub>F</sub>	30	mA
Peak Forward Current* <sup>1</sup>	I <sub>FP</sub>	150	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	Topr	-40°C~80°C	
Storage Temperature	Tstg	-40°C~85°C	
Soldering Temperature	Tsol	260°C (for 5 seconds)	

\*<sup>1</sup>Condition for I<sub>FP</sub> is pulse of 1/10 duty and 0.1msec width.

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F=20mA$	-	3.5	4.0	V
Luminous Intensity	$I_v$	$I_F=20mA$	-	100	-	mcd
Reverse Current	$I_R$	$V_R=5V$	-	-	100	$\mu A$
Peak Wave Length	$\lambda_p$	$I_F=20mA$	-	470	-	nm
Dominant Wave Length	$\lambda_d$	$I_F=20mA$	465	-	475	nm
Spectral Line Half-width	$\Delta \lambda$	$I_F=20mA$	-	30	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	-	125	-	deg

### ● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

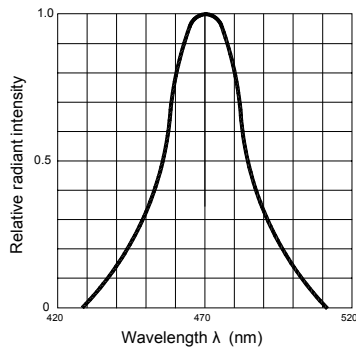


Fig.2 Forward current derating curve vs. Ambient temperature

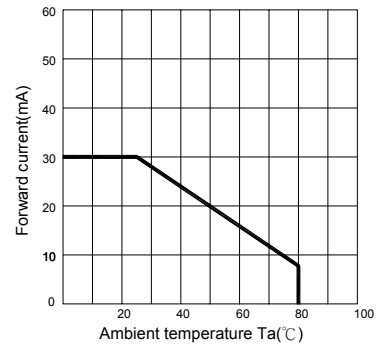


Fig.3 Forward current vs. Forward voltage

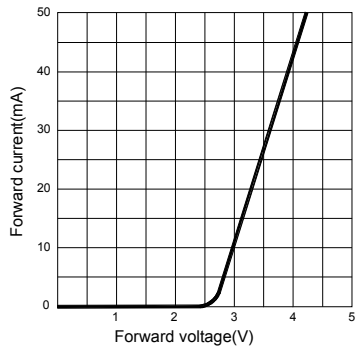


Fig.4 Relative luminous intensity vs. Ambient temperature

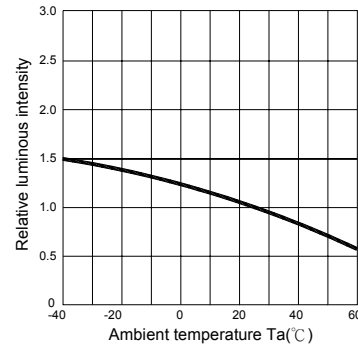


Fig.5 Relative luminous intensity vs. Forward current

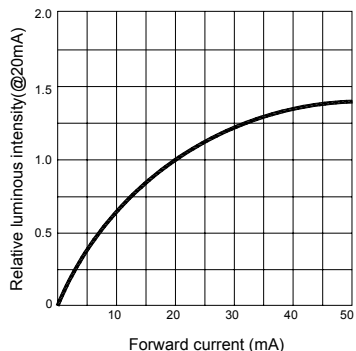
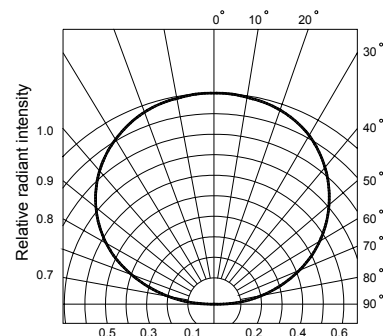


Fig.6 Radiation diagram



● **Bin definition**

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

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
N	37	72
P	55	110
Q	82	160
R	120	240
S	180	360
:	:	:

2. Color Bin Limits (At  $I_F=20\text{mA}$ ) : Dominant Wave Length  $\lambda_d(\text{nm})$

Bin Code	Min. (nm)	Max. (nm)
4	464	471
5	469	476

3.  $V_F$  (At  $I_F=20\text{mA}$ )

Bin Code	Min. (v)	Max. (v)
G	2.75	3.05
H	2.95	3.25
J	3.15	3.45
K	3.35	3.65
L	3.55	3.85
M	3.75	4.05

