

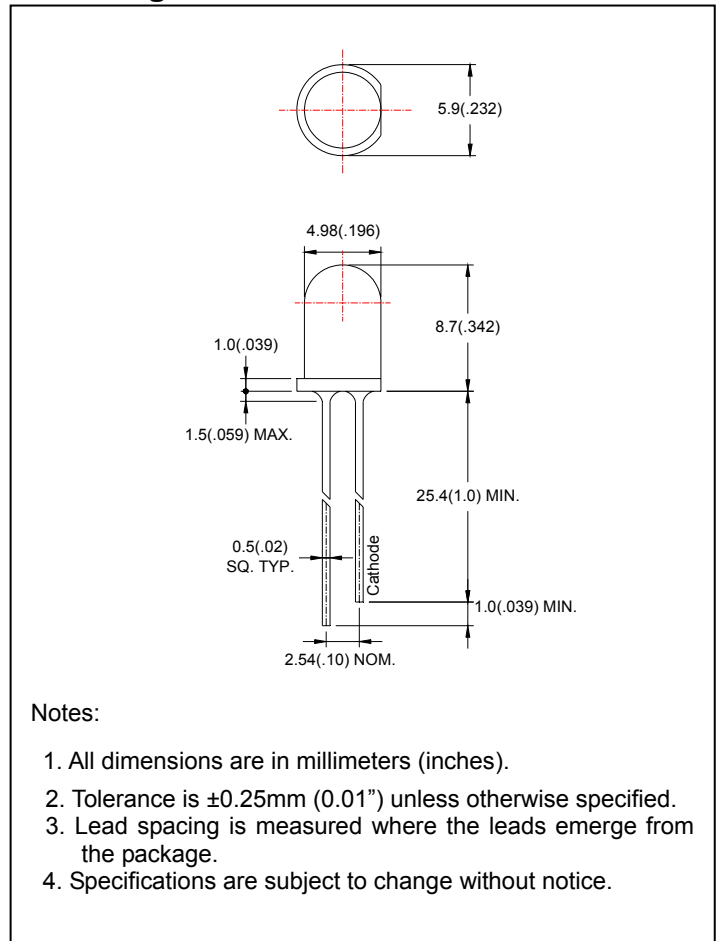
### ● Features:

1. Chip material: AlInGaN
2. Emitted color : Super Blue
3. Lens Appearance : Blue Trans
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. T-1 3/4 type package
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
Forward Current	$I_F$	30	mA
Peak Forward Current* <sup>1</sup>	$I_{FP}$	150	mA
Reverse Voltage	$V_R$	5	V
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	$T_{sol}$	$260^\circ\text{C}$ (for 5 seconds)	

\*<sup>1</sup>Condition for  $I_{FP}$  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	$V_F$	$I_F=20\text{mA}$	-	3.5	4.0	V
Luminous Intensity	$I_v$	$I_F=20\text{mA}$	-	5600	-	mcd
Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	10	$\mu\text{A}$
Peak Wave Length	$\lambda_p$	$I_F=20\text{mA}$	-	470	-	nm
Dominant Wave Length	$\lambda_d$	$I_F=20\text{mA}$	465	-	475	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	-	30	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	12	-	deg

### ● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

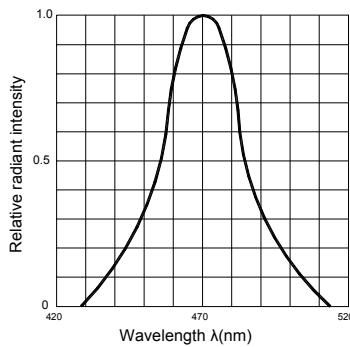


Fig.2 Forward current derating curve vs. Ambient temperature

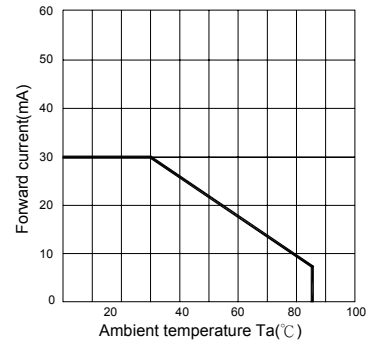


Fig.3 Forward current vs. Forward voltage

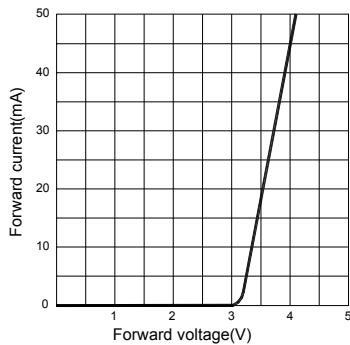


Fig.4 Relative luminous intensity vs. Ambient temperature

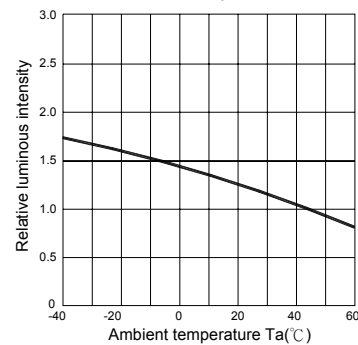


Fig.5 Relative luminous intensity vs. Forward current

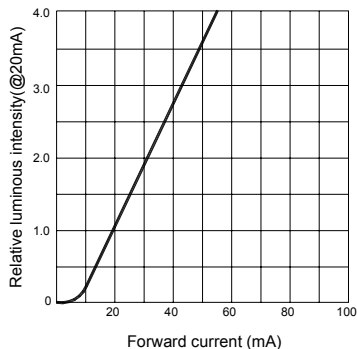
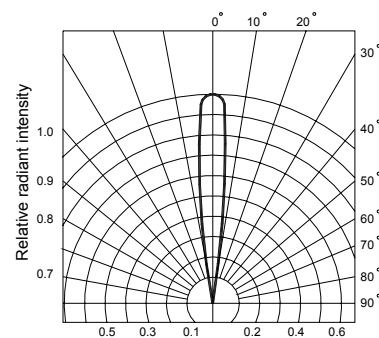


Fig.6 Radiation diagram



● **Bin Limits**

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

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
Y	2090	4260
Z	3220	6440
ZA	4880	9660
ZB	7320	14490
ZC	11000	21350
:	:	:

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

