

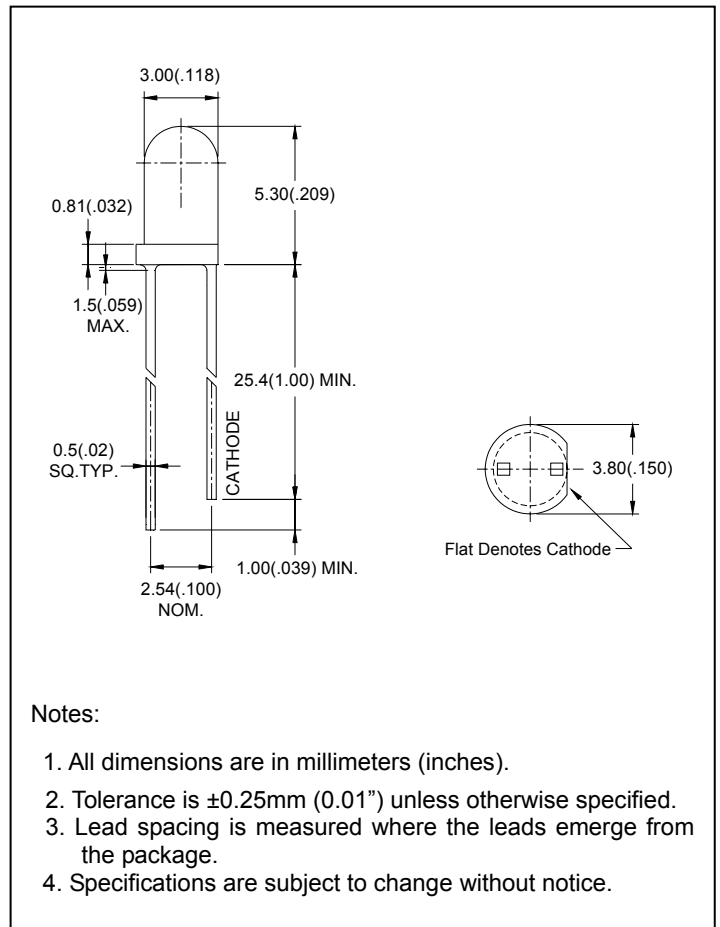
## ● Features:

1. Chip material: GaP/GaP
2. Emitted color : Green
3. Lens Appearance : Green Diffused
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 3mm diameter 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(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	80	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	VF	IF=20mA	-	2.2	2.6	V
Luminous Intensity	Iv	IF=20mA	-	40	-	mcd
Reverse Current	IR	VR=5V	-	-	100	μA
Peak Wave Length	λ p	IF=20mA	-	568	-	nm
Dominant Wave Length	λ d	IF=20mA	560	-	576	nm
Spectral Line Half-width	Δ λ	IF=20mA	-	30	-	nm
Viewing Angle	2θ1/2	IF=20mA	-	35	-	deg

## ● Typical Electro-Optical Characteristics Curves

Fig.1 Relative intensity vs. Wavelength

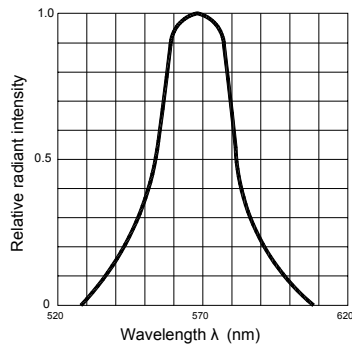


Fig.2 Forward current derating curve vs. Ambient temperature

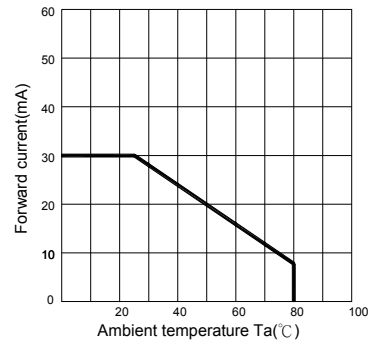


Fig.3 Forward current vs. Forward voltage

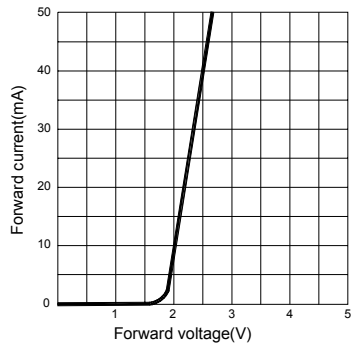


Fig.4 Relative luminous intensity vs. Ambient temperature

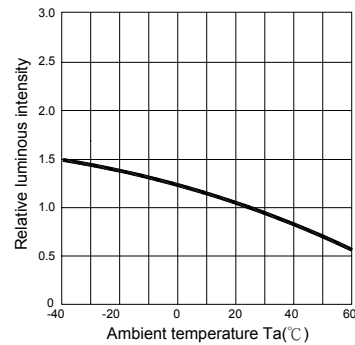


Fig.5 Relative luminous intensity vs. Forward current

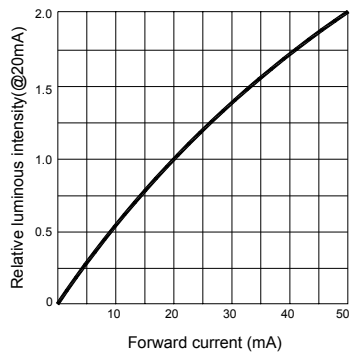
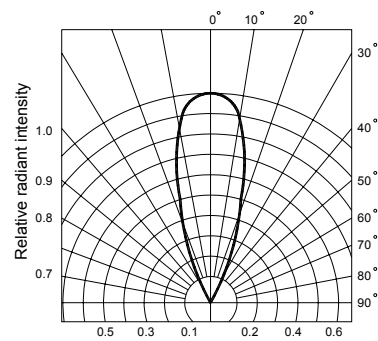


Fig.6 Radiation diagram



● **Bin Limits**

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

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
K	11	21
L	16	32
M	24	48
N	37	72
P	55	110
:	:	:

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

Bin Code	Min. (nm)	Max. (nm)
1	559	563
2	561	565
3	563	567
4	565	569
5	567	571
6	569	573
7	571	575
8	573	577

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

Bin Code	Min. (v)	Max. (v)
B	1.75	2.05
C	1.95	2.25
D	2.15	2.45
E	2.35	2.65

