

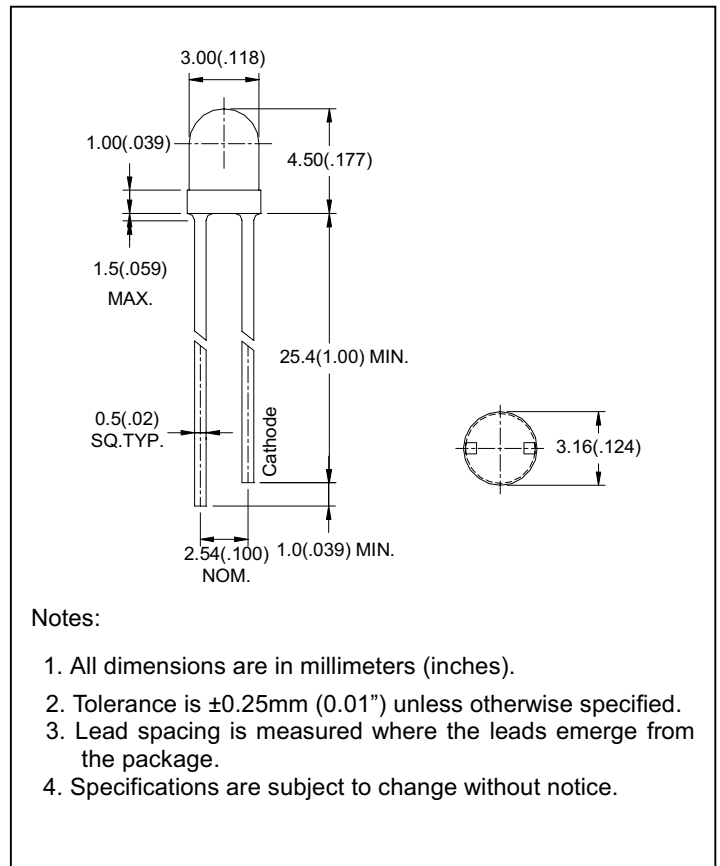
● Features:

1. Chip material: AlGaInP/GaAs
2. Emitted color : Super Orange
3. Lens Appearance : Red 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.

● 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	100	mW
Forward Current	I _F	30	mA
Peak Forward Current* ¹	I _{FP}	150	mA
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-40°C~80°C	
Storage Temperature	Tstg	-40°C~85°C	
Soldering Temperature	Tsol	260°C (for 5 seconds)	

*¹Condition 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	$I_F=20\text{mA}$	-	2.1	2.6	V
Luminous Intensity	I_v	$I_F=20\text{mA}$	-	200	-	mcd
Reverse Current	I_R	$V_R=5\text{V}$	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20\text{mA}$	-	630	-	nm
Dominant Wave Length	λ_d	$I_F=20\text{mA}$	620	-	630	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	-	17	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	45	-	deg

Typical electro-optical characteristics curves

Fig.1 Relative intensity VS. Wavelength

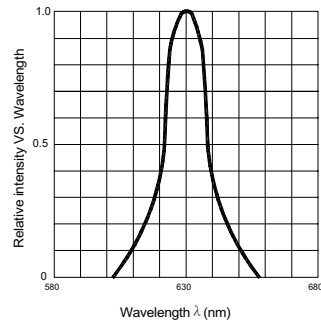


Fig.2 Forward current derating curve VS. Ambient temperature

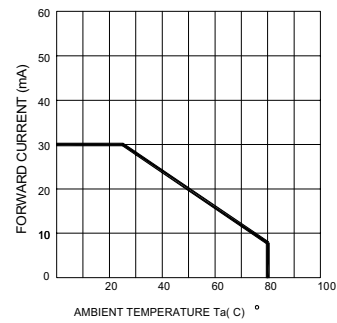


Fig.3 Forward current VS. Forward voltage

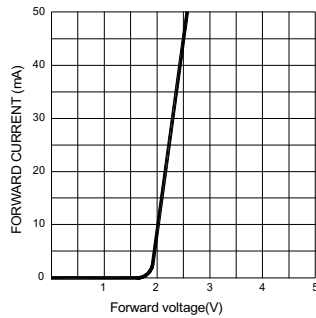


Fig.4 Relative luminous intensity VS. Ambient temperature

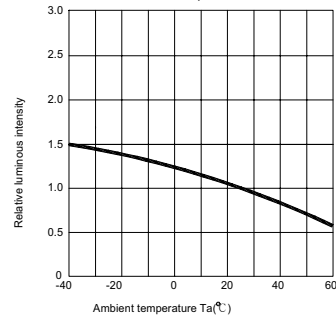


Fig.5 Relative luminous intensity VS. Forward current

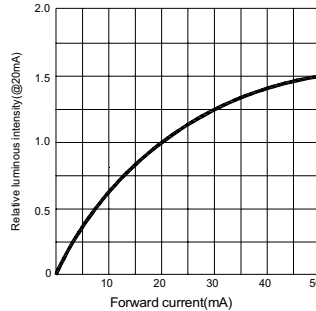
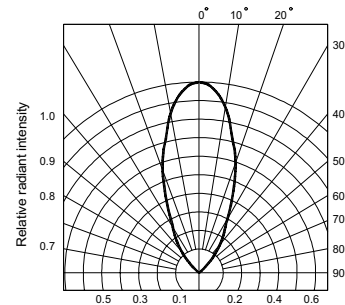


Fig.6 Radiation diagram



● Bin Limits

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

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
P	55	110
Q	82	160
R	120	240
S	180	360
T	280	550
:	:	:

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

Bin Code	Min. (nm)	Max. (nm)
6	619	625
7	623	629
8	627	633

