

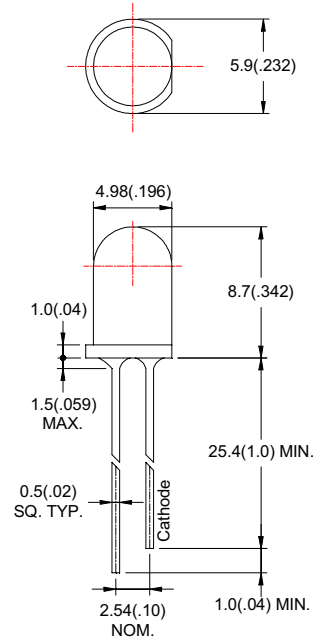
● Features:

1. Chip material: AlGaInP/GaAs
2. Emitted color :Super Orange
3. Lens Appearance : Water Clear
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 5mm diameter package.

● Applications:

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

● Package dimensions:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● Absolute maximum ratings($T_a=25^\circ\text{C}$)

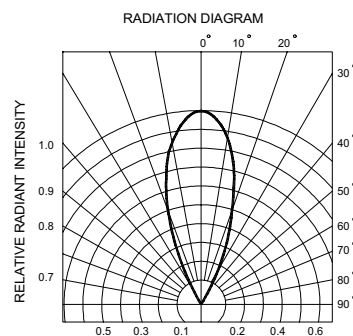
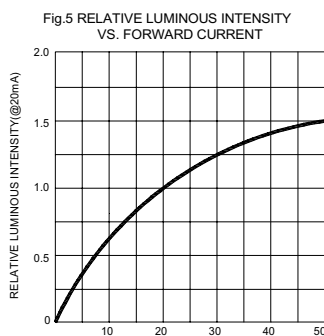
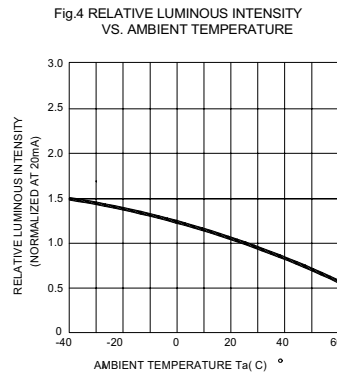
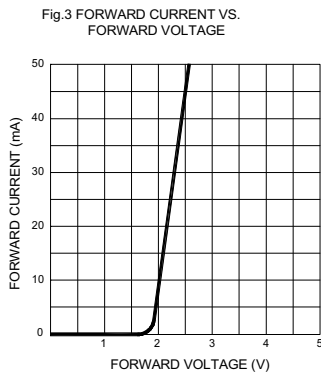
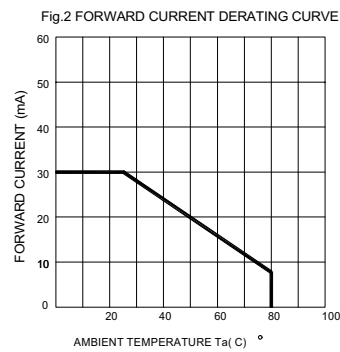
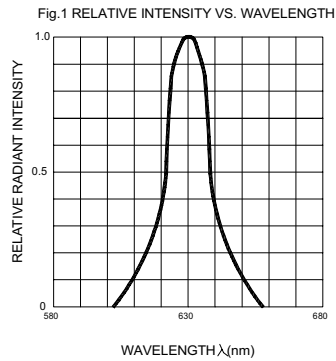
Parameter	Symbol	Rating	Unit
Power Dissipation	P_d	100	mW
Forward Current	I_F	30	mA
Peak Forward Current ^{*1}	I_{FP}	150	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	$-40^\circ\text{C} \sim 80^\circ\text{C}$	
Storage Temperature	T_{stg}	$-40^\circ\text{C} \sim 85^\circ\text{C}$	
Soldering Temperature	T_{sol}	260°C (for 5 seconds)	

^{*1}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	$I_F=20\text{mA}$	-	2.2	2.6	V
Luminous Intensity	I_v	$I_F=20\text{mA}$	-	700	-	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	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	40	-	deg

Typical electro-optical characteristics curves



● Bin Limits

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

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
S	180	360
T	280	550
U	410	820
V	620	1230
W	930	1840
:	:	:

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

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

