

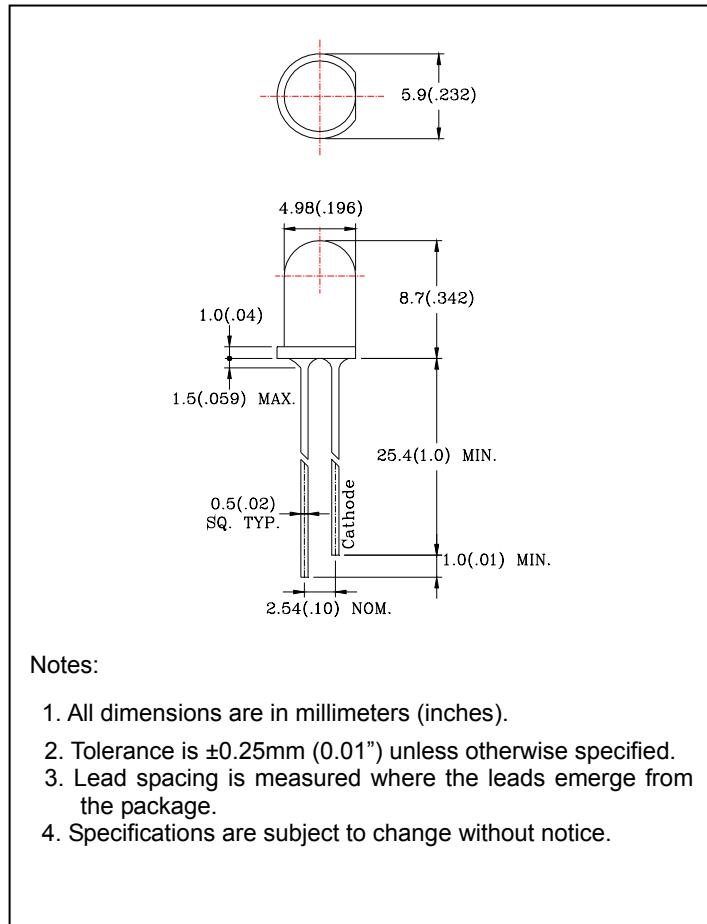
● Features:

1. Chip material: GaAlAs/GaAs
2. Emitted color : Super Red
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



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

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	80	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°C~80°C	
Storage Temperature	T _{stg}	-40°C~85°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 =20mA	-	2.0	2.6	V
Luminous Intensity	I _v	I _F =20mA	-	800	-	mcd
Reverse Current	I _R	V _R =5V	-	-	100	µA
Peak Wave Length	λ _p	I _F =20mA	-	645	-	nm
Dominant Wave Length	λ _d	I _F =20mA	627	-	637	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	22	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	35	-	deg

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

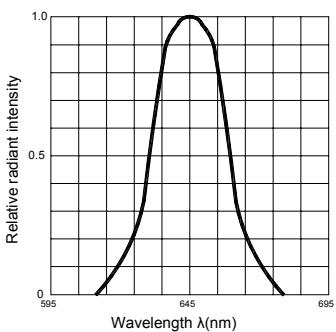


Fig.2 Forward current derating curve vs. Ambient temperature

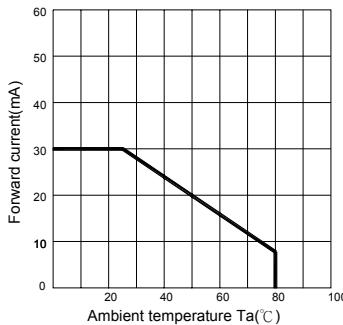


Fig.3 Forward current vs. Forward voltage

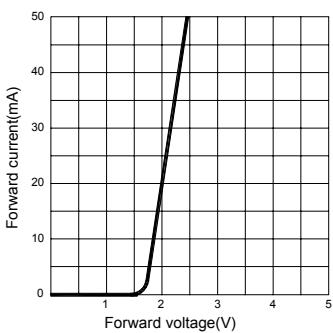


Fig.4 Relative luminous intensity vs. Ambient temperature

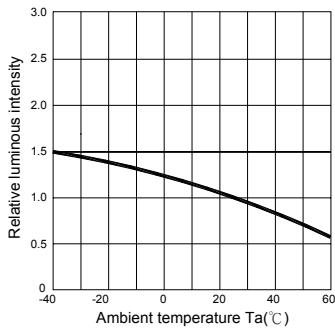


Fig.5 Relative luminous intensity vs. Forward current

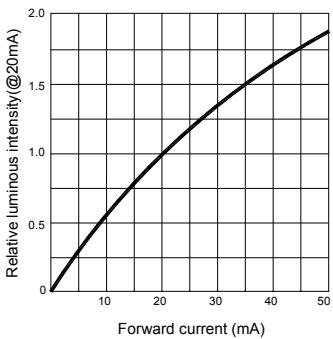
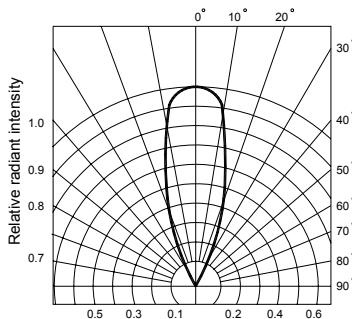


Fig.6 Radiation diagram



● Bin Limits

1. Intensity Bin Limits (At $I_F = 20mA$)

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
T	280	550
U	410	820
V	620	1230
W	930	1840
X	1390	2760
:	:	:

2. V_F Bin Limits (At $I_F=20mA$)

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

● Bin : x x

