

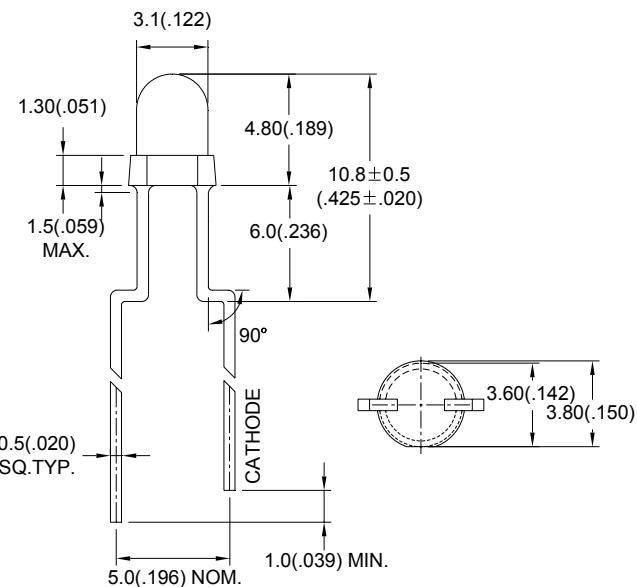
● Features:

1. Chip material: AlGaAs/GaAs
2. Emitted color : Super Red
3. Lens Appearance : Light Red Trans
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 3.1mm 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:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (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(Ta=25°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	-	1.8	2.4	V
Luminous Intensity	I _v	I _F =20mA	-	80	-	mcd
Reverse Current	I _R	V _R =5V	-	-	100	µA
Peak Wave Length	λ _p	I _F =20mA	-	660	-	nm
Dominant Wave Length	λ _d	I _F =20mA	-	643	-	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	20	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	35	-	deg

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

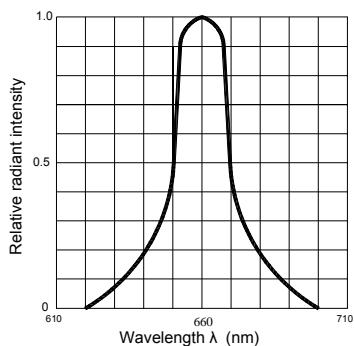


Fig.2 Forward current derating curve vs. Ambient temperature

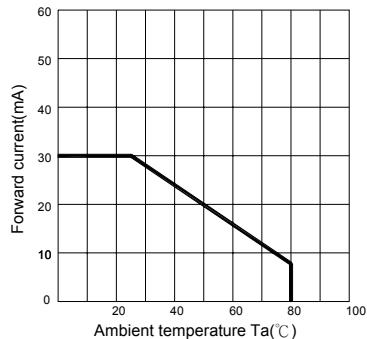


Fig.3 Forward current vs. Forward voltage

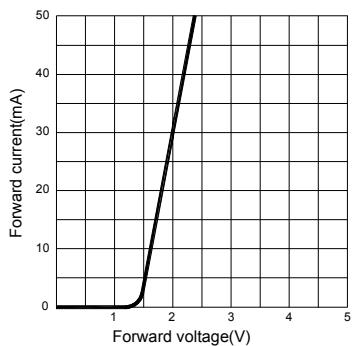


Fig.4 Relative luminous intensity vs. Ambient temperature

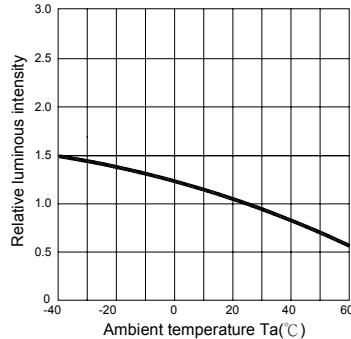


Fig.5 Relative luminous intensity vs. Forward current

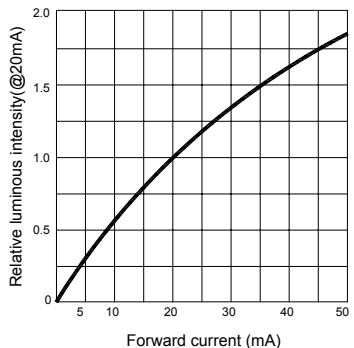
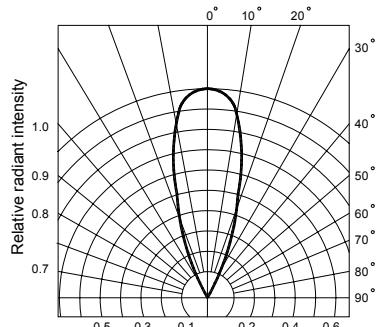
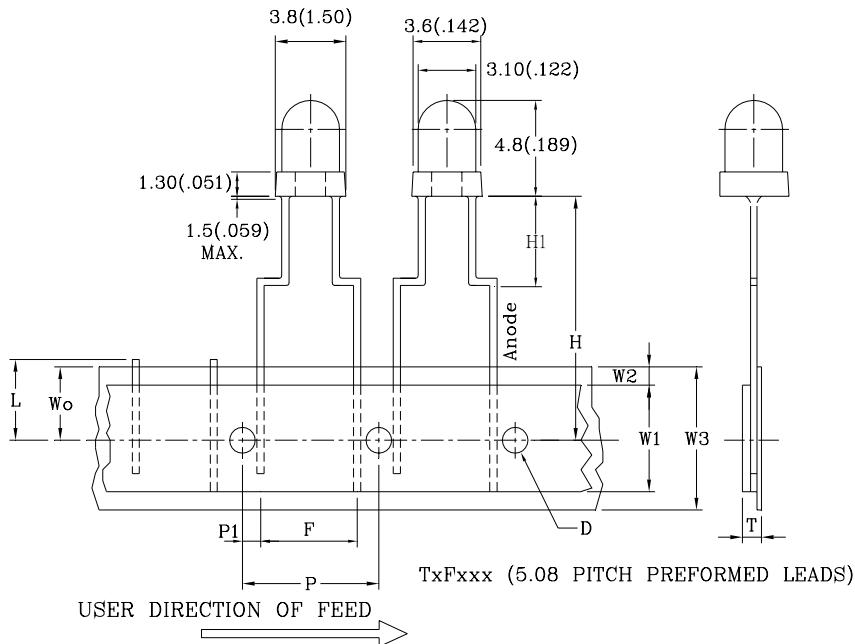


Fig.6 Radiation diagram



● Tapping and packaging specifications(Units: mm)



H-----	22.0 (.866) ± 0.5
H1-----	6.0 (.236) ± 0.5
L-----	11.0 (.433) Max.
W _o -----	9.0 (.35)
P ₁ -----	3.85 (.15)
F-----	5.0 (.197)
P-----	12.7 (.50)
D-----	Ø 4.0 (.157)
W ₁ -----	10.0 (.394)
W ₂ -----	4.0 (.157) Max.
W ₃ -----	18.0 (.708)
T-----	1.42 (.055) Max.

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● Bin Limits

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

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
M	24	48
N	37	72
P	55	110
Q	82	160
R	120	240
:	:	:

● Bin : x

