

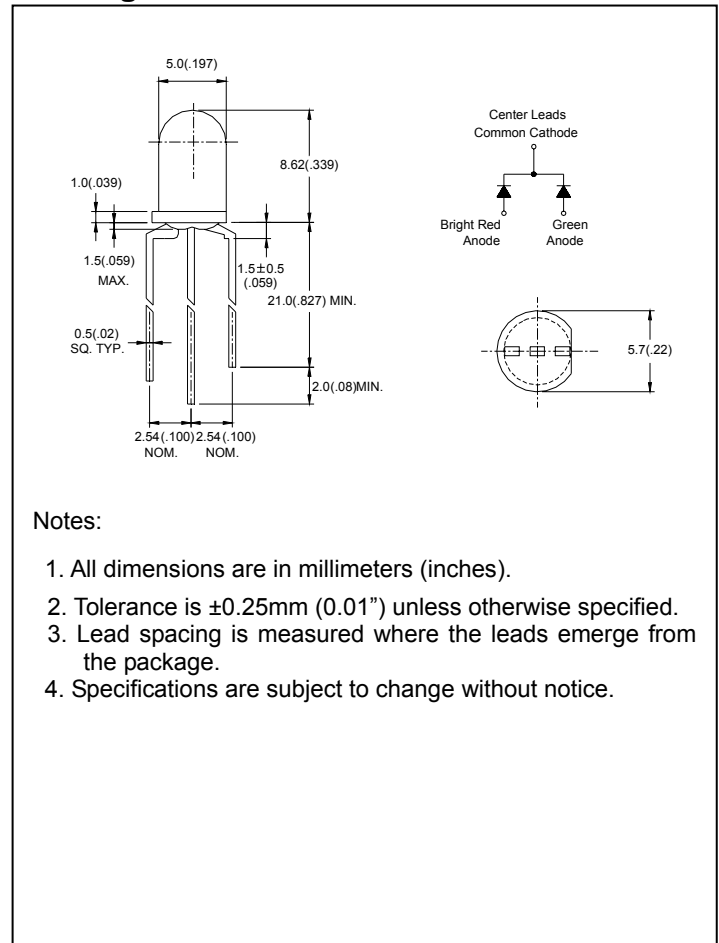
● Features:

1. Chip material: GaP/GaP
2. Emitted color : Bright Red and Green
3. Lens Appearance : White Diffused
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. T-1 3/4 type 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 $\pm 0.25\text{mm}$ (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(Ta=25°C)

Parameter	Symbol	Super red	Super green	Unit
Power Dissipation	Pd	40	80	mW
Forward Current	I _F	15	30	mA
Peak Forward Current* ¹	I _{FP}	50	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	Color	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20mA$	Red Green	-	2.0 2.3	2.4 2.6	V
Luminous Intensity	I_v	$I_F=20mA$	Red Green	-	8.0 45	-	mcd
Reverse Current	I_R	$V_R=5V$	Red Green	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20mA$	Red Green	-	700 568	-	nm
Dominant Wave Length	λ_d	$I_F=20mA$	Red Green	- 560	650 -	- 576	nm
Spectral Line Half-width	$\Delta \lambda$	$I_F=20mA$	Red Green	-	100 15	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	Red Green	-	50	-	deg

● **Typical Electro-Optical Characteristics Curves**

Fig.1 Relative intensity vs. Wavelength

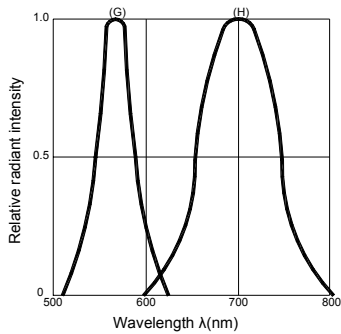


Fig.2 Forward current derating curve vs. Ambient temperature

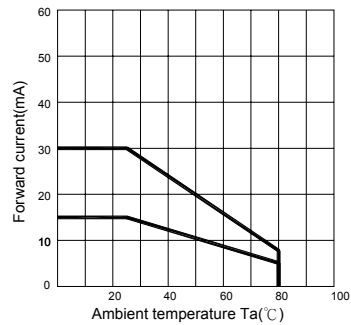


Fig.3 Forward current vs. Forward voltage

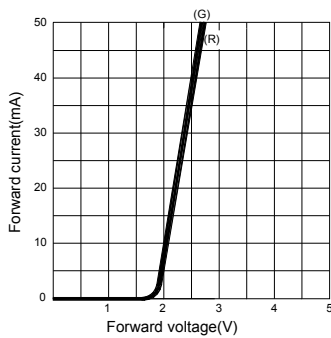


Fig.4 Relative luminous intensity vs. Ambient temperature

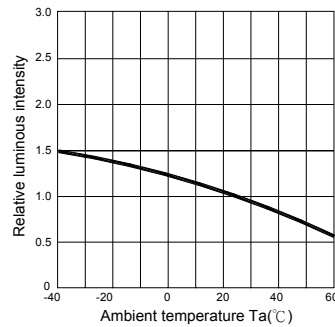


Fig.5 Relative luminous intensity vs. Forward current

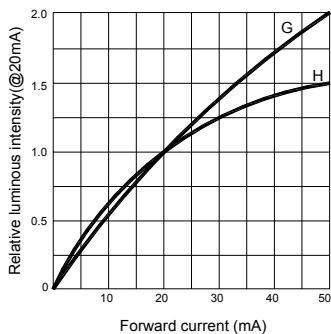


Fig.6 Radiation diagram

