

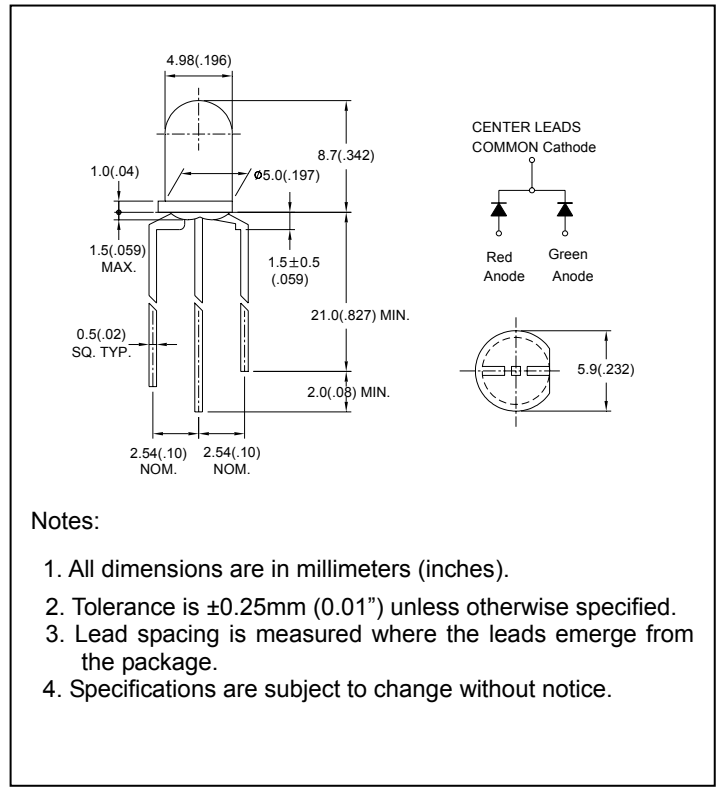
● Features:

1. Chip material: AlGaInP/GaAs (Red)
and InGaN (Green)
2. Emitted color : Super 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. 5mm 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



● Absolute Maximum Ratings(Ta=25°C)

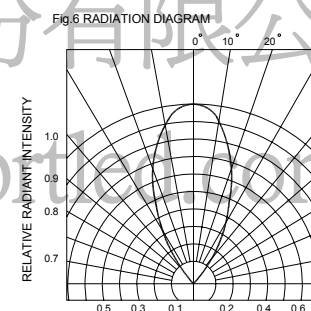
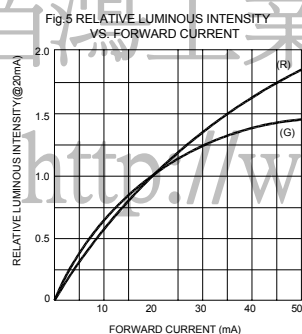
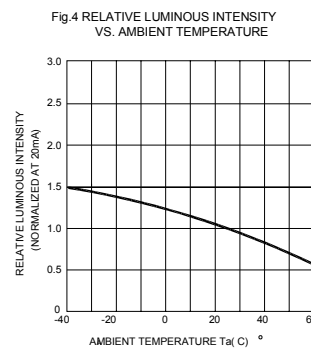
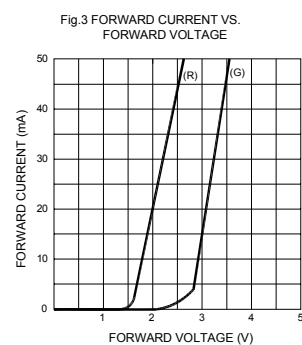
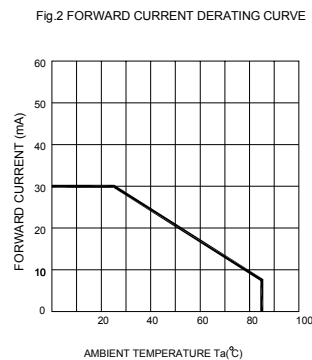
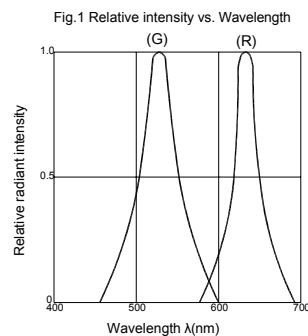
Parameter	Symbol	Super Red	Green	Unit
Power Dissipation	Pd	80	120	mW
Forward Current	I _F	30	30	mA
Peak Forward Current* ¹	I _{FP}	150	150	mA
Reverse Voltage	V _R	5	5	V
Operating Temperature	T _{opr}	-40°C~85°C		
Storage Temperature	T _{stg}	-40°C~100°C		
Soldering Temperature	T _{sol}	260°C max (for 5 seconds)		
Hand Soldering Temperature	T _{sol}	350°C max(for 3 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	$I_F=20\text{mA}$	Red Green	-	2.0 3.2	2.6 3.6	V
Luminous Intensity	I_v	$I_F=20\text{mA}$	Red Green	-	240 1250	-	mcd
Reverse Current	I_R	$V_R=5\text{V}$	Red Green -	-		100	μA
Peak Wave Length	λ_p	$I_F=20\text{mA}$	Red Green	-	644 525	-	nm
Dominant Wave Length	λ_d	$I_F=20\text{mA}$	Red Green	625 520	- -	637 535	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	Red Green	-	20 35	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	Red Green	-	50	-	deg

Typical Electro-Optical Characteristics Curves



● Bin Limits(Green)

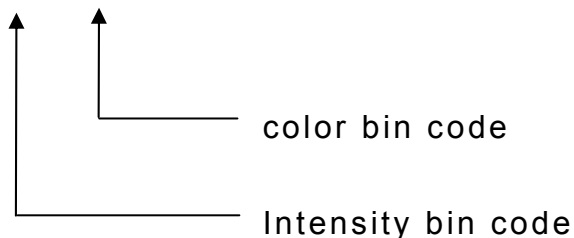
1. Intensity Bin Limits (At $I_F = 20\text{mA}$)

Bin Code	Min. (mcd)	Max. (mcd)
U	475	715
V	715	1070
W	1070	1600
X	1600	2400
Y	2400	3700

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

Bin Code	Min. (nm)	Max. (nm)
6	520	525
7	525	530
8	530	535

● Bin :



NOTES: 1. Tolerance of measurement of luminous intensity. : $\pm 15\%$

2. Tolerance of measurement of dominant wavelength : $\pm 1.0\text{nm}$

● DIP soldering (Wave Soldering)

Preheating : 120°C , within 120~180 sec.

Operation heating : $255^\circ\text{C} \pm 5^\circ\text{C}$ within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching).

