

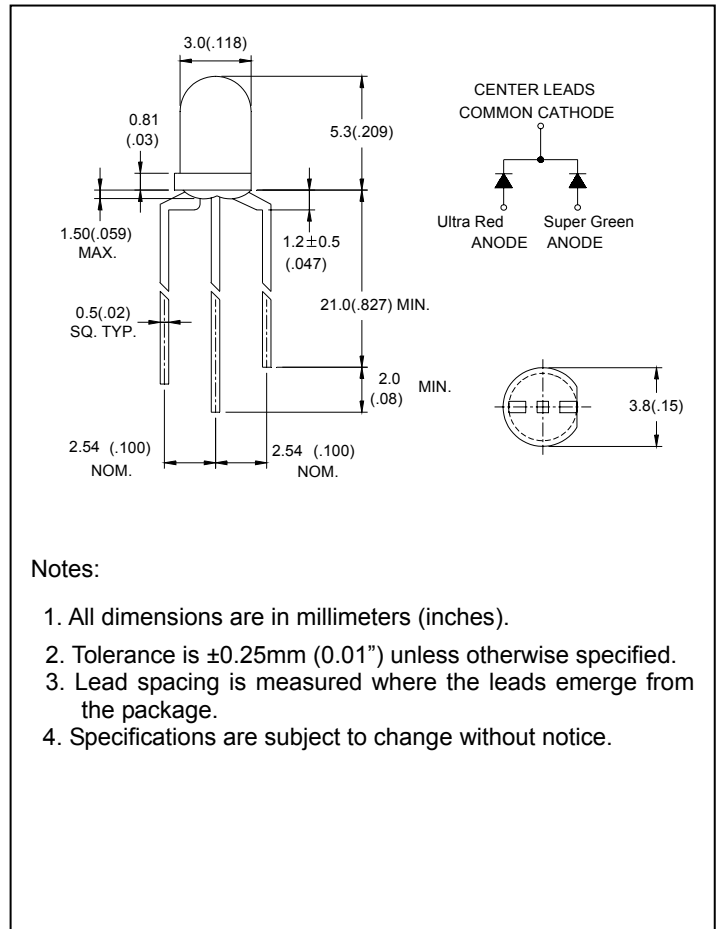
● Features:

1. Chip material: AlGaInP/GaAs (Red)
and AlGaInP/GaAs (Green)
2. Emitted color : Super Red and Green
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. 3mm diameter package.

● 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	Super Green	Unit
Power Dissipation	Pd	80	80	mW
Forward Current	I _F	30	30	mA
Peak Forward Current* ¹	I _{FP}	150	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	Green Red	-	2.0 2.0	2.6 2.6	V
Luminous Intensity	I _v	I _F =20mA	Green Red	-	165 585	-	mcd
Reverse Current	I _R	V _R =5V	Green Red	-	-	100	μA
Peak Wave Length	λ _p	I _F =20mA	Green Red	-	645 570	-	nm
Dominant Wave Length	λ _d	I _F =20mA	Green Red	627 567	- -	637 572	nm
Spectral Line Half-width	Δλ	I _F =20mA	Green Red	-	22 30	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	Green Red	-	30	-	deg

● Typical Electro-Optical Characteristics Curves

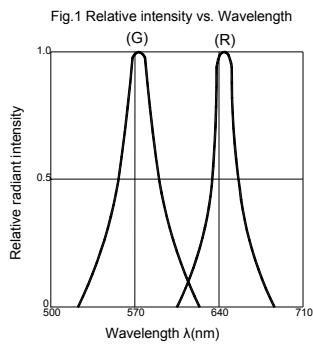


Fig.2 FORWARD CURRENT DERATING CURVE

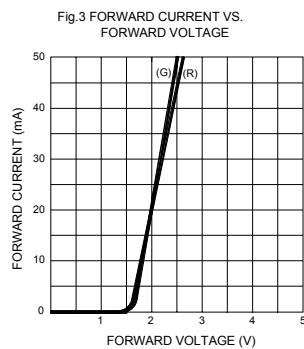
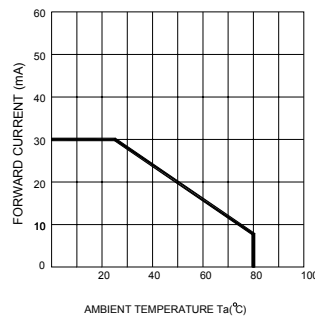


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

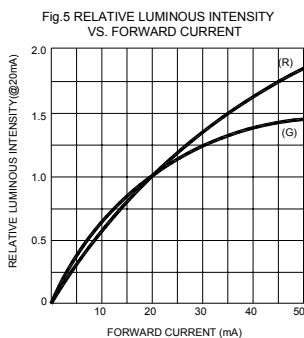
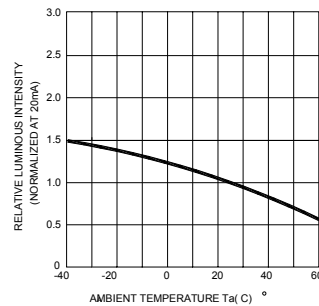


Fig.6 RADIATION DIAGRAM

