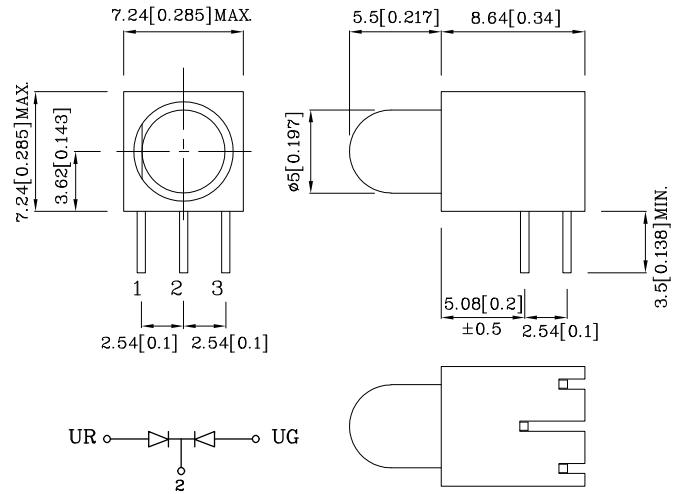


Features

- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- 3 LEADS WITH COMMON CATHODE LEAD.
- THIRD COLOR(MIXED COLOR) AVAILABLE.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY-LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.



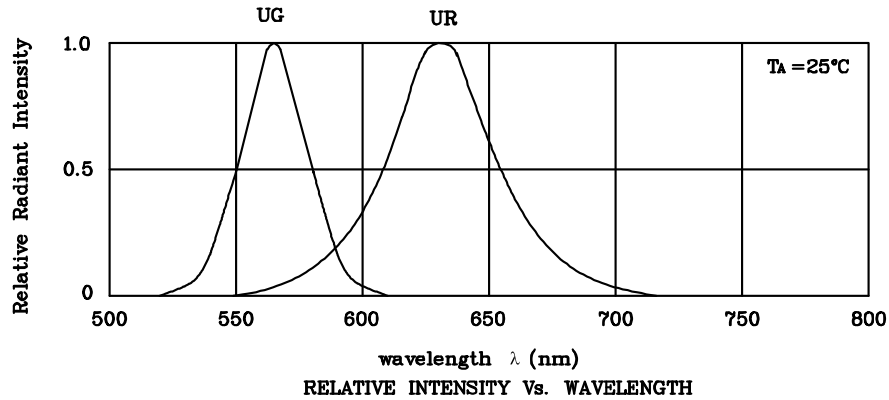
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.

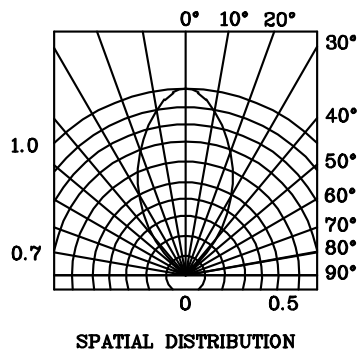
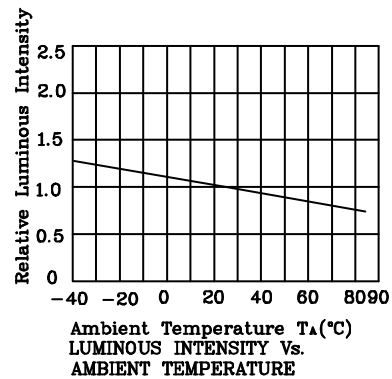
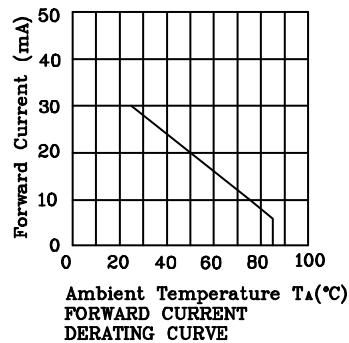
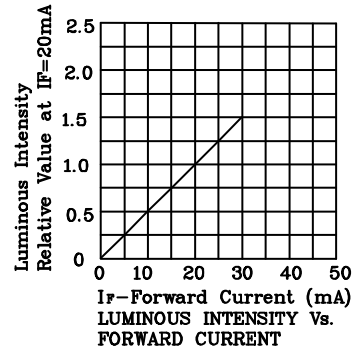
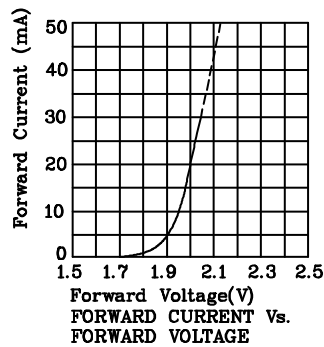
Absolute Maximum Ratings (TA=25°C)		UR (GaAsP/ GaP)	UG (GaP)	Unit
Reverse Voltage	V _R	5	5	V
Forward Current	I _F	30	25	mA
Forward Current (peak) 1/10Duty Cycle 0.1ms Pulse Width	i _{FS}	160	140	mA
Power Dissipation	P _T	105	105	mW
Operating Temperature	T _A	-40 ~ +85		°C
Storage Temperature	T _{stg}	-40 ~ +85		
Lead Solder Temperature [2mm below package base]	260°C For 3 Seconds			
Lead Solder Temperature [5mm below package base]	260°C For 5 Seconds			

Operating Characteristics (TA=25°C)		UR (GaAsP/ GaP)	UG (GaP)	Unit
Forward Voltage (typ.) (I _F =20mA)	V _F	2.0	2.2	V
Forward Voltage (max.) (I _F =20mA)	V _F	2.5	2.5	V
Reverse Current (V _R =5V)	I _R	10	10	uA
Wavelength of Peak Emission (I _F =20mA)	λ _P	627	565	nm
Wavelength of Dominant Emission (I _F =20mA)	λ _D	625	568	nm
Spectral Line Full Width At Half-Maximum (I _F =20mA)	Δλ	45	30	nm
Capacitance (V _F =0V, f=1MHz)	C	15	15	pF

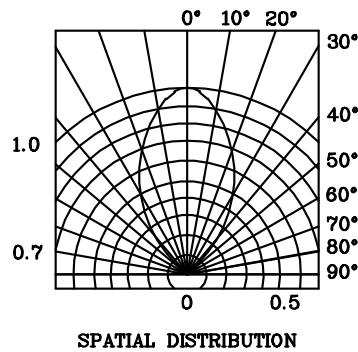
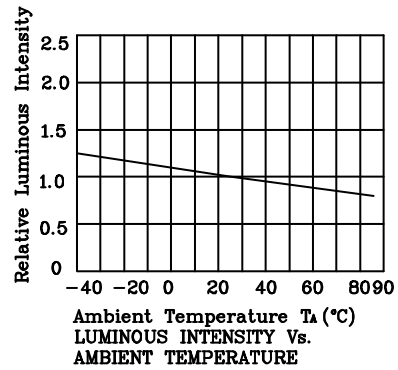
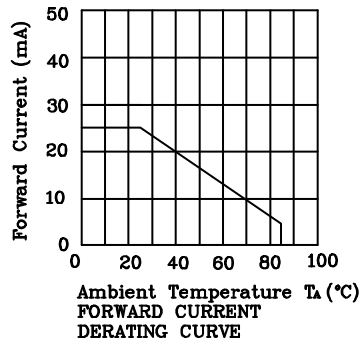
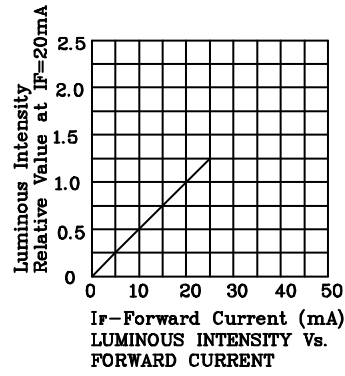
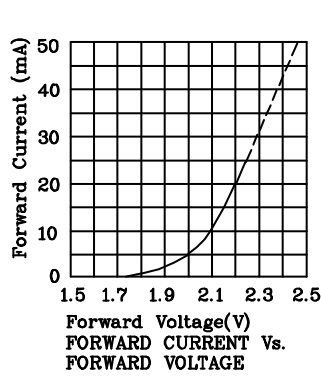
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λ _P	Viewing Angle 2θ 1/2
				min.	typ.		
XVM1LUGR59M	Red	GaAsP/GaP	White Diffused	18	59	627	60°
	Green	GaP		18	49	565	



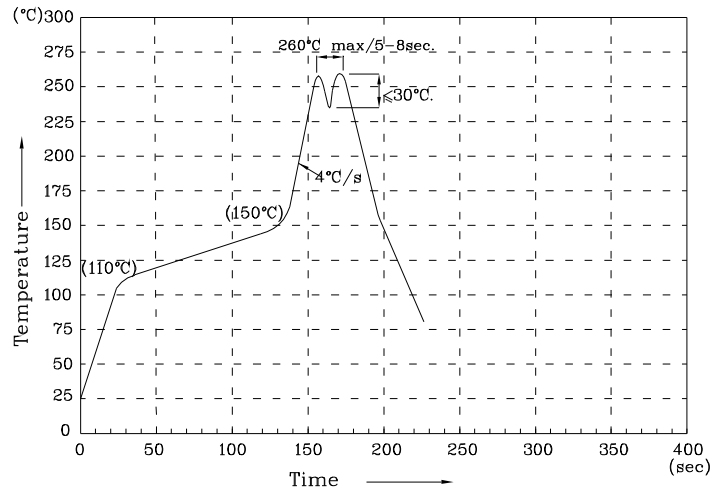
❖ UR



❖ UG



Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- 2.Do not apply stress on epoxy resins when temperature is over 85 degree°C.
- 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.No more than once.

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.