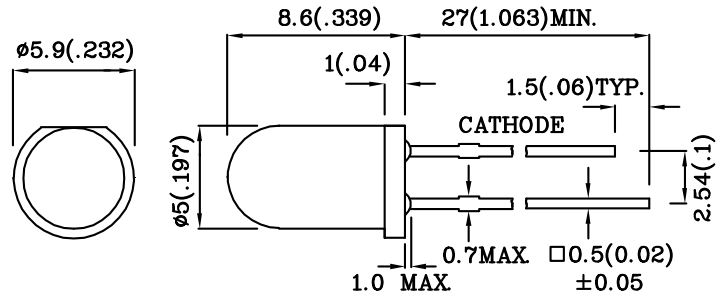


**Features**

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 14V INTERNAL RESISTOR.
- RoHS COMPLIANT.



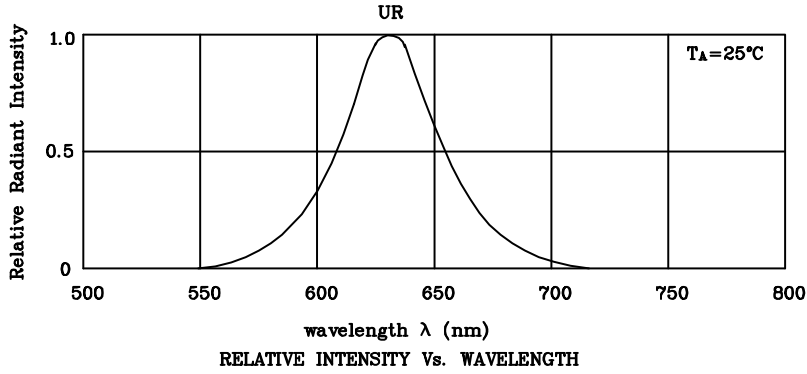
Notes:

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

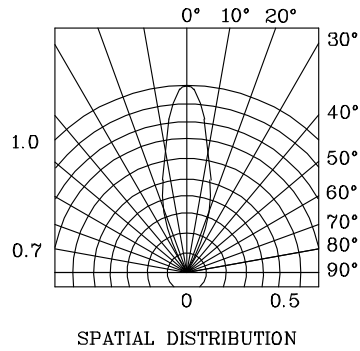
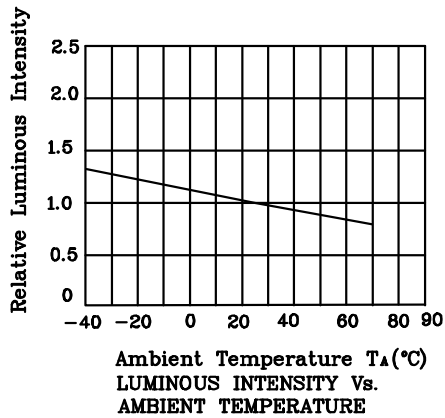
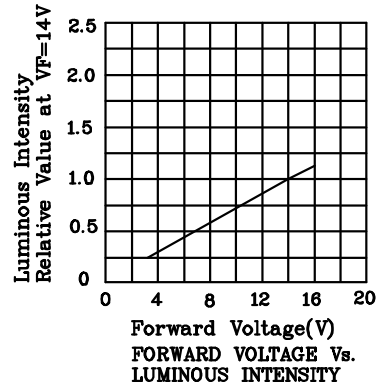
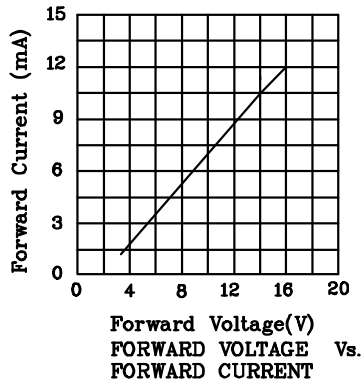
Absolute maximum ratings ( $T_A=25^\circ\text{C}$ )		UR (GaAsP/ GaP)	Unit
Reverse voltage	$V_R$	5	V
Forward voltage	$V_F$	16	V
Power dissipation	$P_T$	160	mW
Operating temperature	$T_A$	-40 ~ +70	°C
Storage temperature	$T_{stg}$	-40 ~ +85	
Lead solder temperature [2mm below package base]	260°C For 3 Seconds		
Lead solder temperature [5mm below package base]	260°C For 5 Seconds		

Operating Characteristics ( $T_A=25^\circ\text{C}$ )		UR (GaAsP/ GaP)	Unit
Forward current (typ.) ( $V_F=14\text{V}$ )	$I_F$	10.5	mA
Forward current (max.) ( $V_F=14\text{V}$ )	$I_F$	13.5	mA
Reverse current ( $V_R=5\text{V}$ )	$I_R$	10	uA
Wavelength at peak emission ( $V_F=14\text{V}$ )	$\lambda_{\text{peak}}$	627	nm
Wavelength of dominant emission ( $V_F=14\text{V}$ )	$\lambda_D$	625	nm
Spectral Line half-width ( $V_F=14\text{V}$ )	$\Delta\lambda$	45	nm

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ( $V=14\text{V}$ ) mcd		Wavelength nm $\lambda_P$	Viewing Angle $2\theta$ 1/2
				min.	typ.		
XLUR12D14V	Red	GaAsP/GaP	Red Diffused	12	29	627	30°
Published Date : APR 05,2005      Drawing No : XDSA7612      V1      Checked : B.L.LIU      P.1/3							



❖ UR



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 luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%

Note: Accuracy may depend on the sorting parameters.