

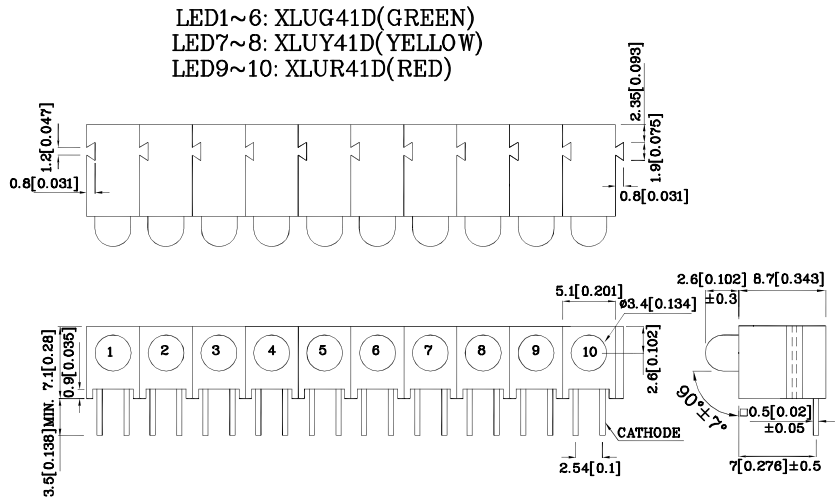
Features

- Pre-trimmed leads for pc mounting.
- Can be assembled with each other.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability-life measured in years.
- Housing UL rating : 94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.



Notes:

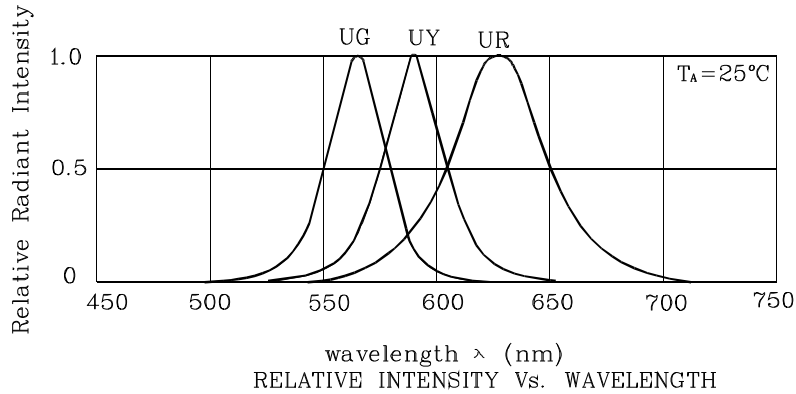
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ " unless otherwise noted.
3. Specifications are subject to change without notice.



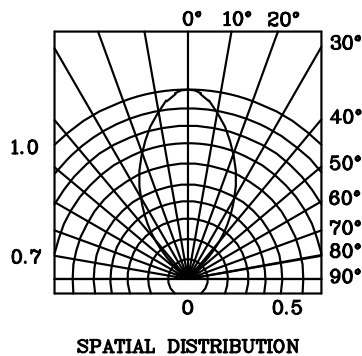
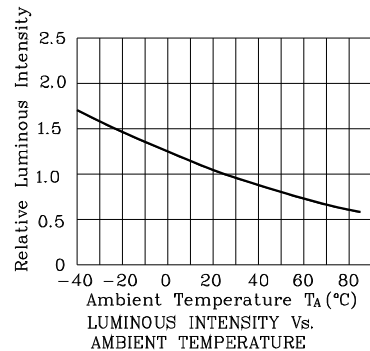
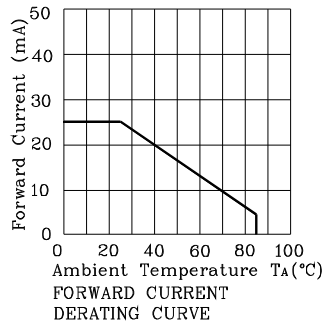
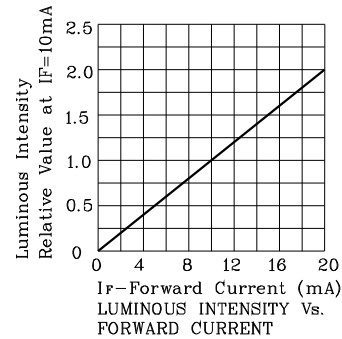
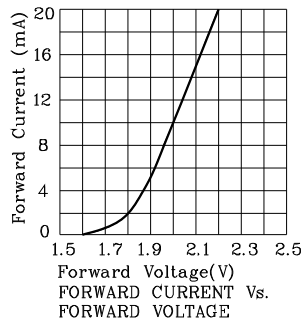
Absolute Maximum Ratings (TA=25°C)		UG (GaP)	UY (GaAsP/ GaP)	UR (GaAs P/GaP)	Unit
Reverse Voltage	VR	5	5	5	V
Forward Current	IF	25	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	140	140	160	mA
Power Dissipation	PD	62.5	75	75	mW
Operating Temperature	TA	-40 ~ +85			°C
Storage Temperature	Tstg	-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)		UG (GaP)	UY (GaAsP /GaP)	UR (GaAs P/GaP)	Unit
Forward Voltage (Typ.) (IF=10mA)	VF	2.0	1.95	1.9	V
Forward Voltage (Max.) (IF=10mA)	VF	2.5	2.5	2.5	V
Reverse Current (Max.) (VR=5V)	IR	10	10	10	uA
Wavelength of Peak Emission (Typ.) (IF=10mA)	λP	565	590	627	nm
Wavelength of Dominant Emission (Typ.) (IF=10mA)	λD	568	588	625	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA)	$\Delta\lambda$	30	35	45	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	15	20	15	pF

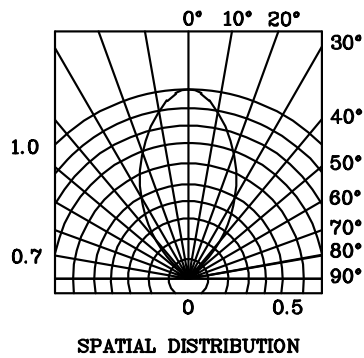
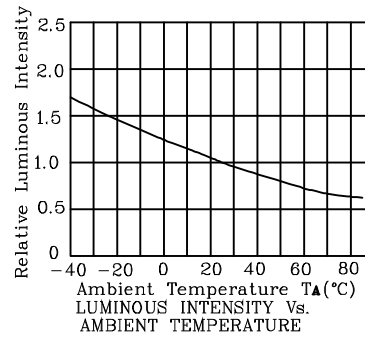
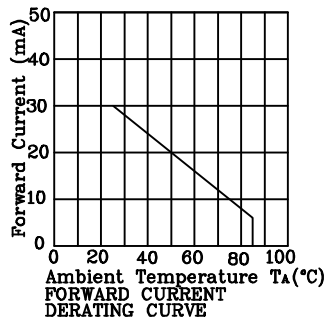
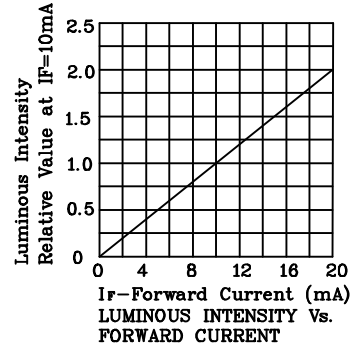
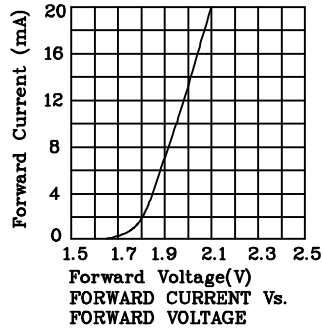
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=10mA) mcd		Wavelength nm λP	Viewing Angle $2\theta 1/2$
				min.	typ.		
XPT10L41DWT23	Green	GaP	Green Diffused	8	14	565	60°
	Yellow	GaAsP/GaP	Yellow Diffused	8	14	590	60°
	Red	GaAsP/GaP	Red Diffused	12	19	627	60°



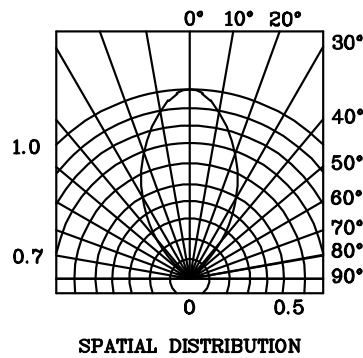
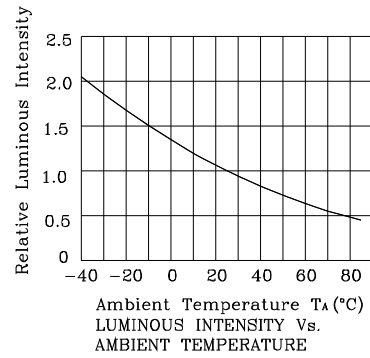
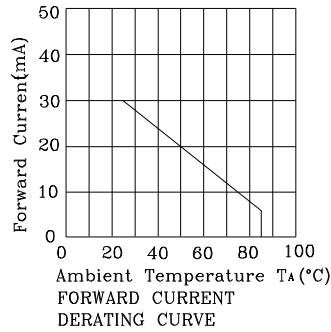
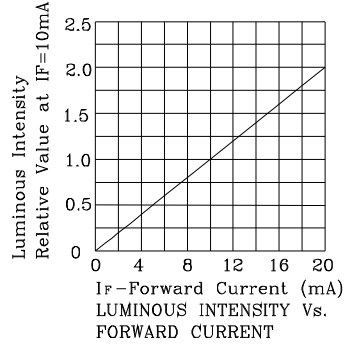
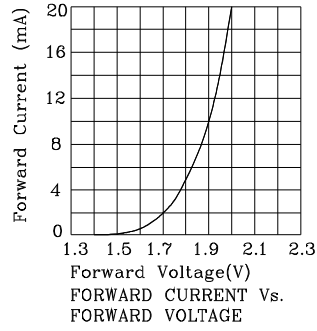
❖ UG



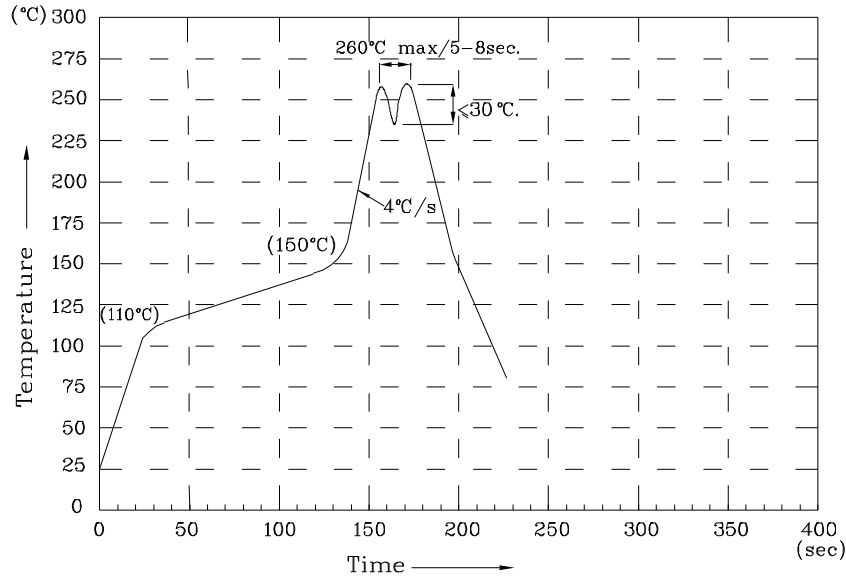
❖ UY



❖ UR



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



NOTES:

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

Remarks:

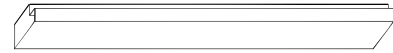
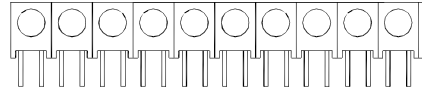
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity / Luminous Flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

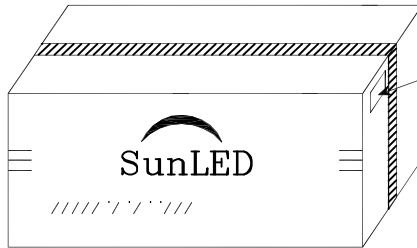
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

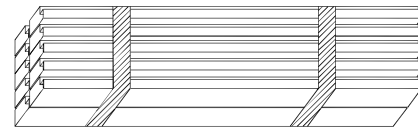
XPT10L41DWT23



9PCS / IC TUBE




OUTSIDE LABEL




0.09K / 10pcs IC TUBE

1.62K/BOX



Q.C.
 Q C
 XX XX XXXX
 PASSED

P/NO : XPxxx	
QTY : 9pcs	CODE: XXX
S/N : XX	
LOT NO :	
 XXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	