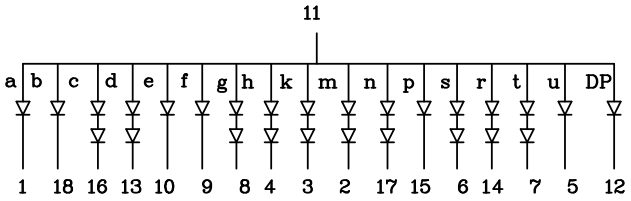
SunLED
www.SunLED.com

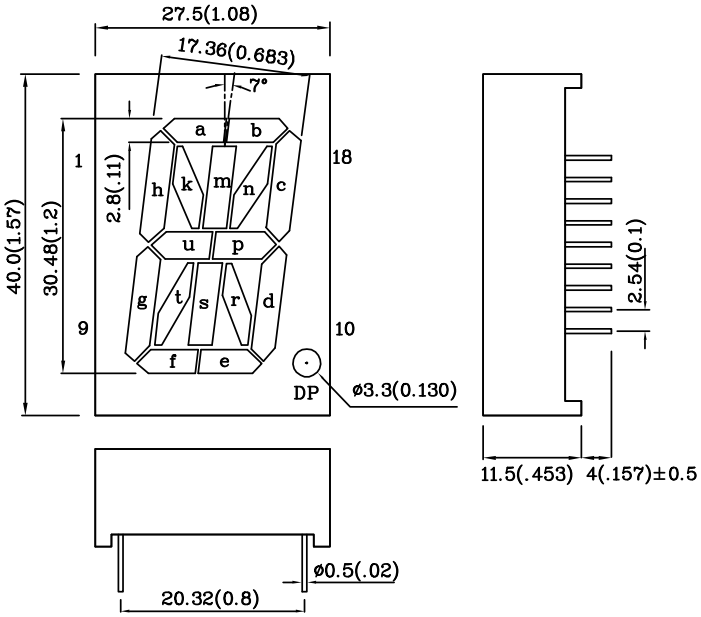
Part Number: **XAUY30A**

30.48mm (1.2") 16 SEGMENT SINGLE DIGIT
ALPHANUMERIC NUMERIC DISPLAY

Features

- 1.2 INCH CHARACTER HEIGHT.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.





Notes:

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

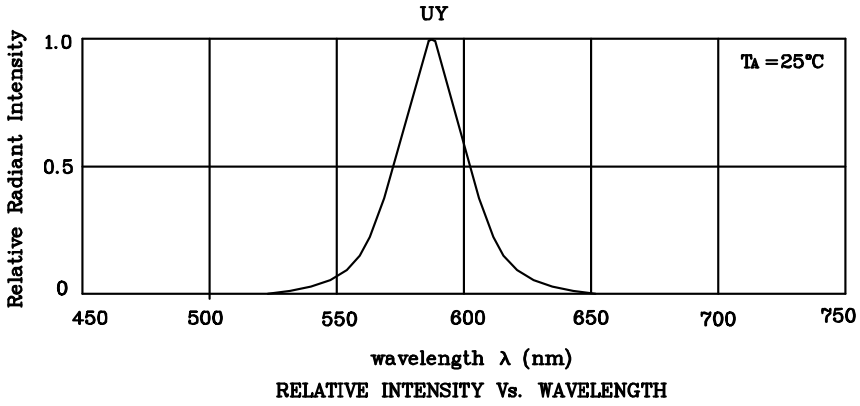
Absolute maximum ratings (TA=25°C)			**UY (GaAsP/GaP)**	**Unit**
Reverse Voltage	C,D,G,H,K,M,N,S,R,T	VR	10	V
	A,B,E,F,P,U(DP)		5	
DC Forward Current	C,D,G,H,K,M,N,S,R,T	IF	30	mA
	A,B,E,F,P,U(DP)			
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	C,D,G,H,K,M,N,S,R,T	iFS	140	mA
	A,B,E,F,P,U(DP)			
Power Dissipation	C,D,G,H,K,M,N,S,R,T	PT	150	mW
	A,B,E,F,P,U(DP)		75	
Operating Temperature		TA	-40 ~ +85	°C
Storage Temperature		Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]		260°C For 5 Seconds		

Part Number: **XAUY30A**

30.48mm (1.2") 16 SEGMENT SINGLE DIGIT
ALPHANUMERIC NUMERIC DISPLAY

Operating Characteristics (TA=25°C)			**UY (GaAsP/GaP)**	**Unit**
Forward Voltage (Typ.) (I_F=10mA)	C,D,G,H,K,M,N,S,R,T	V_F	3.9	V
	A,B,E,F,P,U(DP)		1.95	
Forward Voltage (Max.) (I_F=10mA)	C,D,G,H,K,M,N,S,R,T	V_F	5.0	V
	A,B,E,F,P,U(DP)		2.5	
Reverse Current (V_R=10V(5V))	C,D,G,H,K,M,N,S,R,T	I_R	10	uA
	A,B,E,F,P,U(DP)			
Wavelength of Peak Emission (I_F=10mA)		λ p	590	nm
Wavelength of Dominant Emission (I_F=10mA)		λ D	588	nm
Spectral Line Full Width At Half-Maximum (I_F=10mA)		Δλ	35	nm
Capacitance (V_F=0V, f=1MHz)		C	20	pF

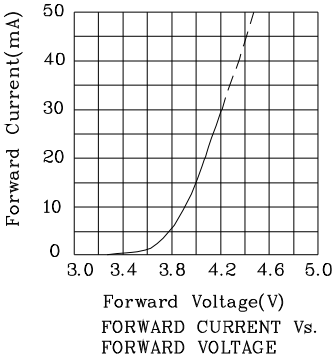
Part Number	Emitting Color	Emitting Material	Luminous Intensity (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
XAUY30A	Yellow	GaAsP/GaP	1200	4690	590	Common Anode, Rt. Hand Decimal



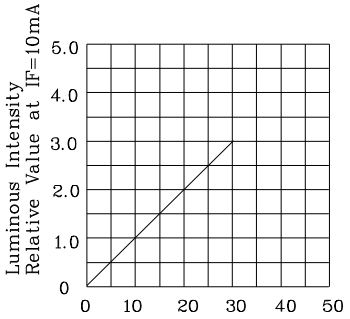
RELATIVE INTENSITY Vs. WAVELENGTH

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.

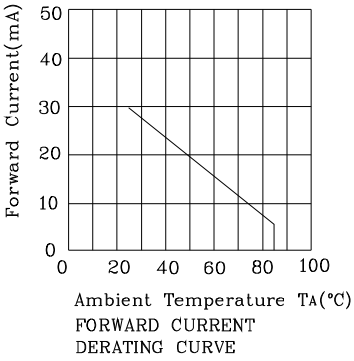
❖ UY



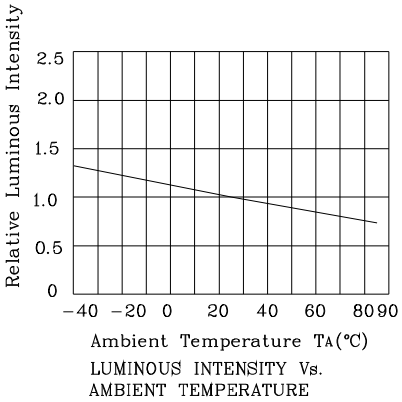
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



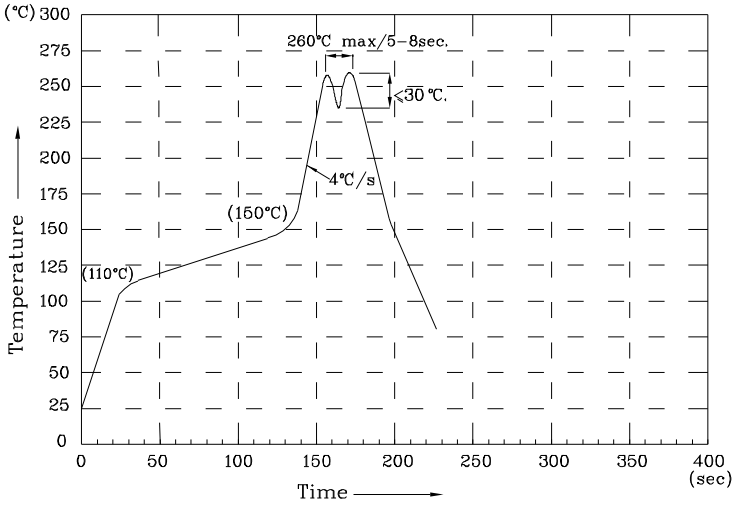
FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

XAUY30A

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



NOTES:

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