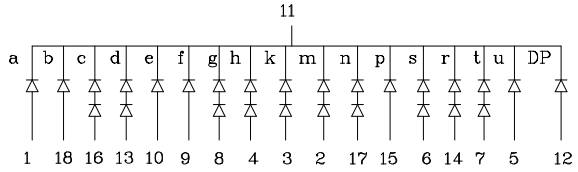
SunLED
www.SunLED.com

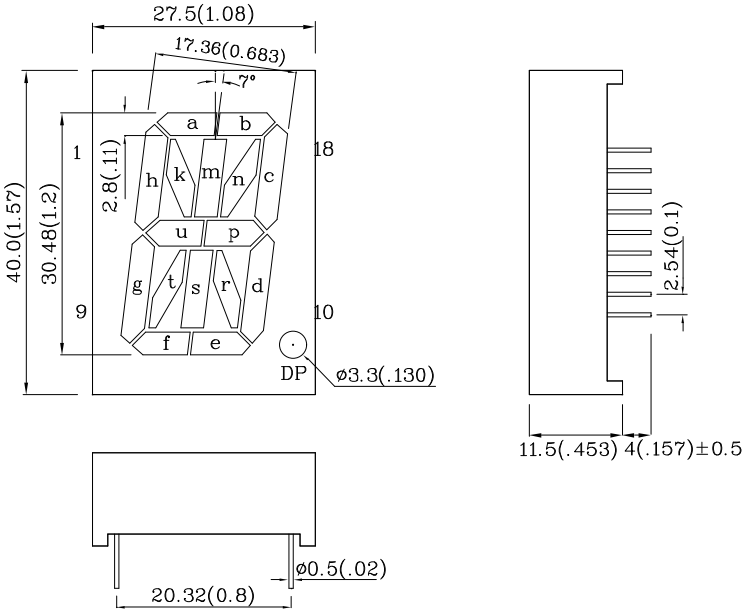
Part Number: **AUY30C**

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.
3.Specifications are subject to change without notice.

Absolute Maximum Ratings (T_A=25°C)			**UY (GaAsP/ GaP)**	**Unit**
Reverse Voltage	c,d,g,h,k,m,n, s,r,t	V_R	10	V
	a,b,e,f,p,u and DP		5	
DC Forward Current	c,d,g,h,k,m,n, s,r,t	I_F	30	mA
	a,b,e,f,p,u and DP			
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	c,d,g,h,k,m,n, s,r,t	i_{FS}	140	mA
	a,b,e,f,p,u and DP			
Power Dissipation	c,d,g,h,k,m,n, s,r,t	P_T	150	mW
	a,b,e,f,p,u and DP		75	
Operating Temperature		T_A	-40 ~ +85	°C
Storage Temperature		Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]		260°C For 3~5 Seconds		

Operating Characteristics (T_A=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 and DP		1.95	
Forward Voltage (Max.) (I_F=10mA)	c,d,g,h,k,m,n ,s,r,t	V_F	5	V
	a,b,e,f,p,u and DP		2.5	
Reverse Current (Max.) (V_R=10V(5V))	c,d,g,h,k,m,n ,s,r,t	I_R	10	uA
	a,b,e,f,p,u and DP			
Wavelength of Peak Emission (Typ.) (I_F=10mA)		λ P	590	nm
Wavelength of Dominant Emission (Typ.) (I_F=10mA)		λ D	588	nm
Spectral Line Full Width At Half-Maximum (Typ.)(I_F=10mA)		Δλ	35	nm
Capacitance (Typ.) (V_F=0V, f=1MHz)		C	20	pF

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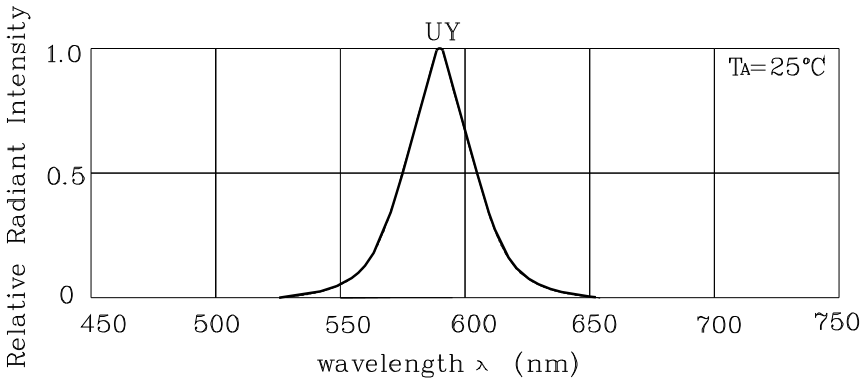
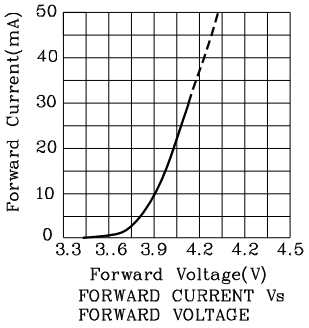
ALPHANUMERIC NUMERIC DISPLAY

Part Number	Emitting Color	Emitting Material	Luminous Intensity (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
AUY30C	Yellow	GaAsP/GaP	1200	4690	590	Common Cathode, Rt. Hand Decimal

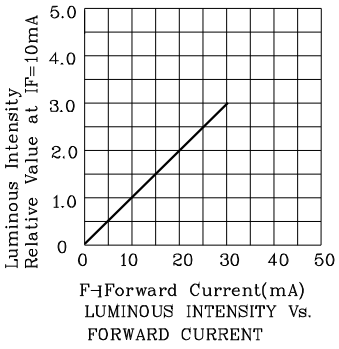


RELATIVE INTENSITY Vs. WAVELENGTH

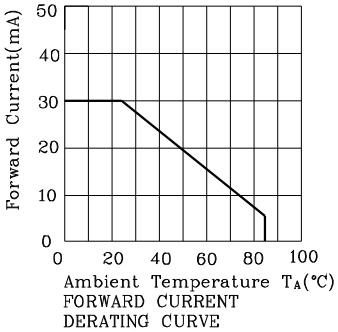
❖ **UY**



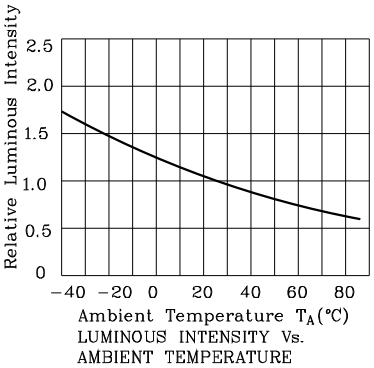
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

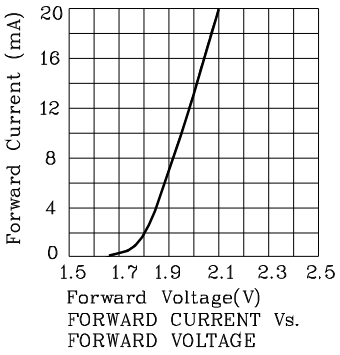


FORWARD CURRENT
DERATING CURVE

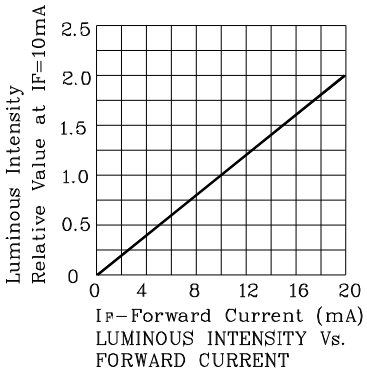


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

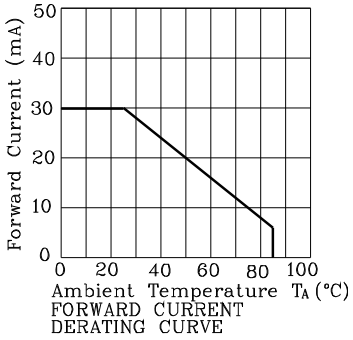
Note:the curves are on the segment c,d,g,h,k,m,n,s,r and t.



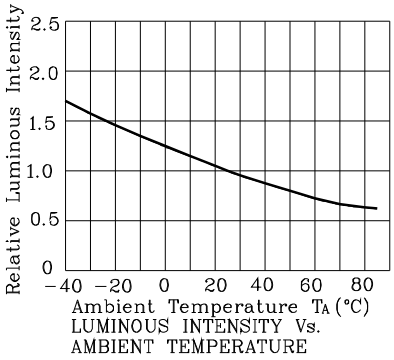
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



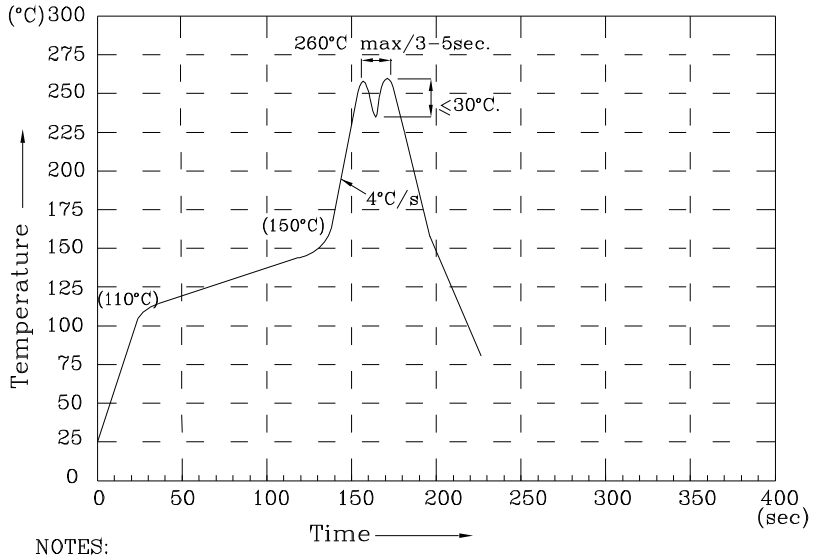
FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

Note:the curves are on the segment a,b,e,f,p,u and DP.

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

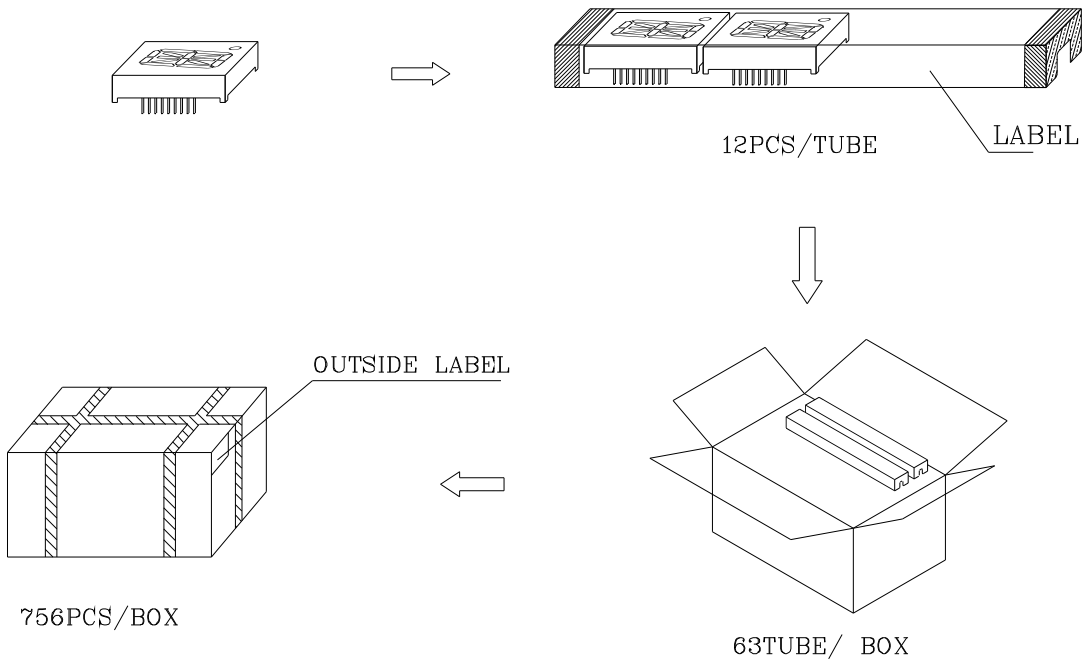
1. Wavelength: +/-1nm

2. Luminous Intensity / Luminous Flux: +/-15%

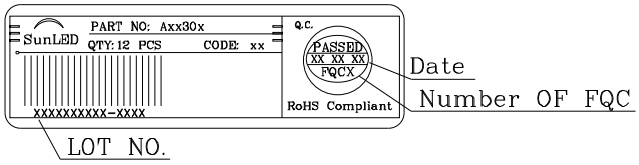
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS AUY30C



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box