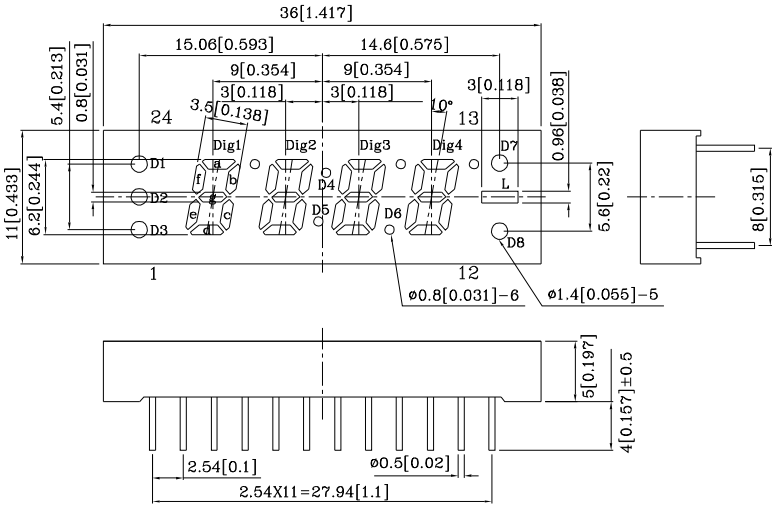
SunLED
www.SunLEDusa.com

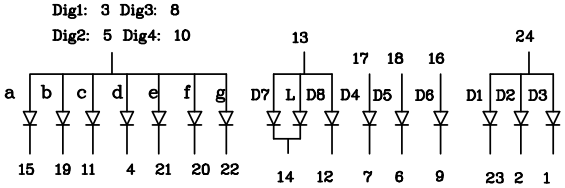
Part Number: **XDUY06A4-A**

6.2mm (0.25") FOUR DIGIT NUMERIC DISPLAY

Features

- 0.25 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.





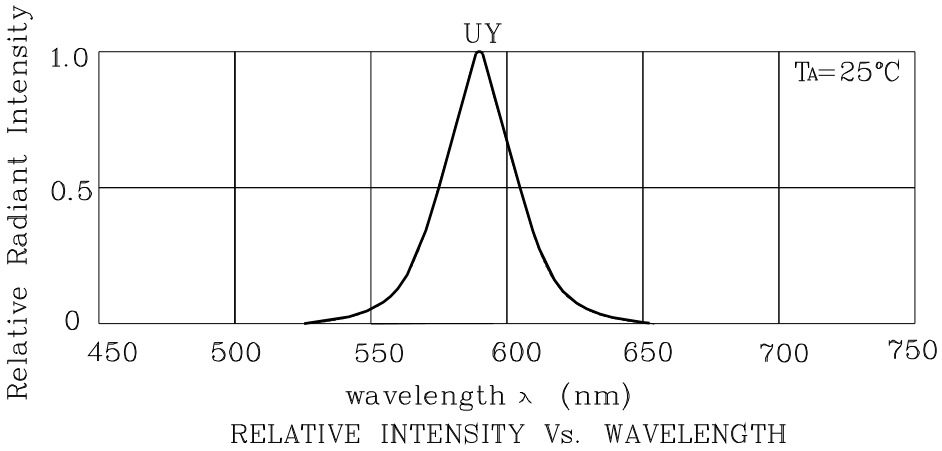
Notes:

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 (TA=25°C)			**UY (GaAsP/ GaP)**	**Unit**
Reverse Voltage	Dig1'8,'Dig2'8',Dig3'8',Dig4'8' D1,D2,D3,D4,D5,D6,D8	VR	5	V
	D7,L			
Forward Current	Dig1'8,'Dig2'8',Dig3'8',Dig4'8' D1,D2,D3,D4,D5,D6,D8	IF	30	mA
	D7,L		60	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	Dig1'8,'Dig2'8',Dig3'8',Dig4'8' D1,D2,D3,D4,D5,D6,D8	iFS	140	mA
	D7,L		280	
Power Dissipation	Dig1'8,'Dig2'8',Dig3'8',Dig4'8' D1,D2,D3 ,D4,D5,D6,D8	PT	75	mW
	D7,L		150	
Operating Temperature		TA	-40 ~ +85	°C
Storage Temperature		Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]		260°C For 3~5 Seconds		

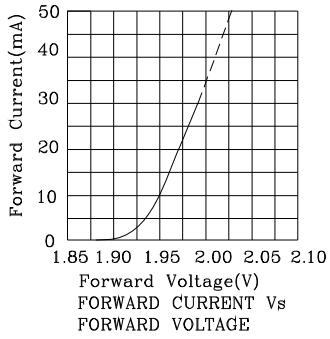
Operating Characteristics (TA=25°C)			**UY (GaAsP/ GaP)**	**Unit**
Forward Voltage (Typ.) (IF=10mA)	Dig1'8,'Dig2'8',Dig3'8',Dig4'8' D1,D2,D3,D4,D5,D6,D8	VF	1.95	V
	D7,L			
Forward Voltage (Max.) (IF=10mA)	Dig1'8,'Dig2'8',Dig3'8',Dig4'8' D1,D2,D3,D4,D5,D6,D8	VF	2.5	V
	D7,L			
Reverse Current (Max.) (VR=5V)	Dig1'8,'Dig2'8',Dig3'8',Dig4'8' D1,D2,D3,D4,D5,D6,D8	IR	10	uA
	D7,L		20	
Wavelength of Peak (Typ.) Emission (IF=10mA)		λ P	590	nm
Wavelength of Dominant Emission (Typ.) (IF=10mA)		λ D	588	nm
Spectral Line Full Width (Typ.) At Half-Maximum (IF=10mA)		Δλ	35	nm
Capacitance (Typ.) (VF=0V, f=1MHz)		C	20	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
XDUY06A4-A	Yellow	GaAsP/GaP	1200	4840	590	Common Anode

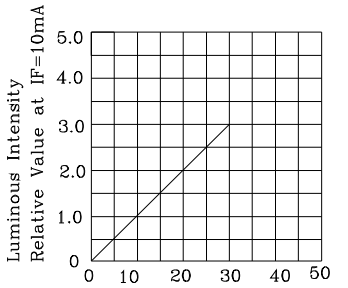


RELATIVE INTENSITY Vs. WAVELENGTH

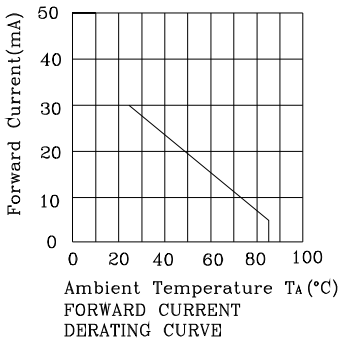
❖ **UY**



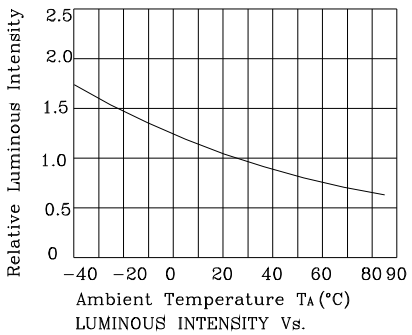
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

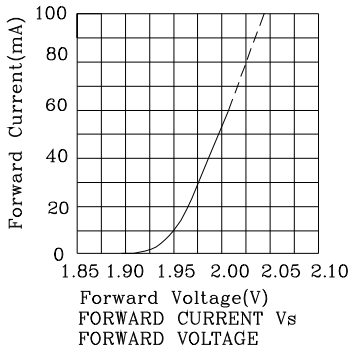


FORWARD CURRENT
DERATING CURVE

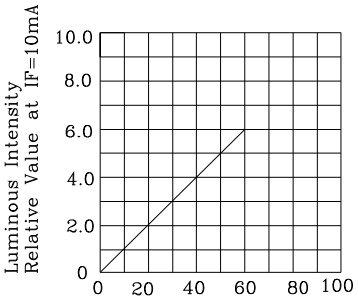


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

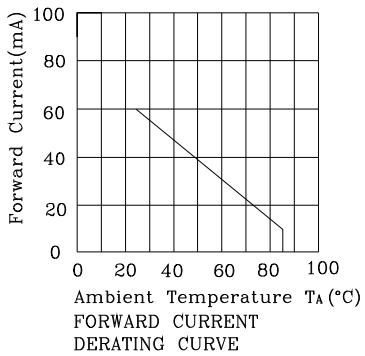
❖ **UY**



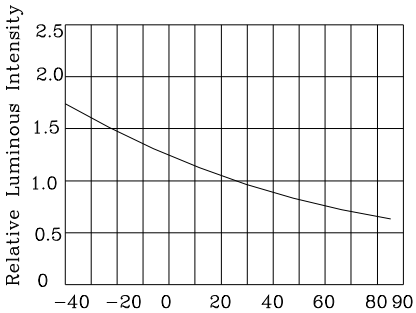
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

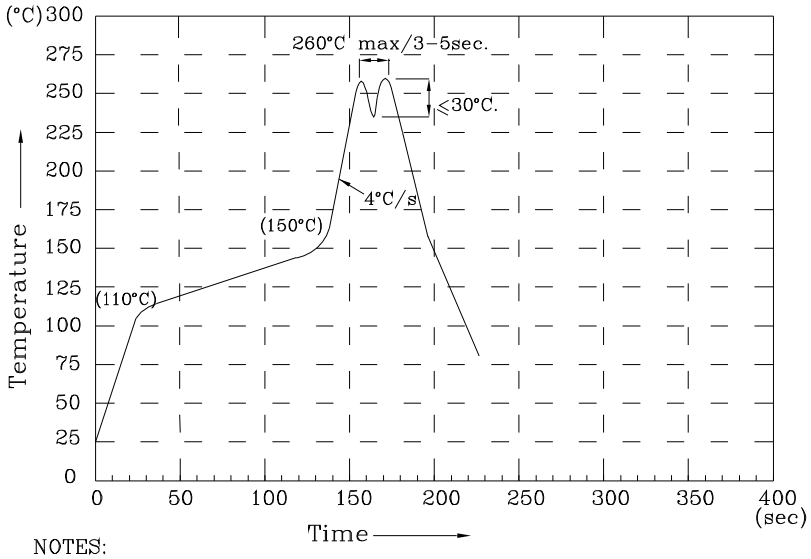


FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

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.

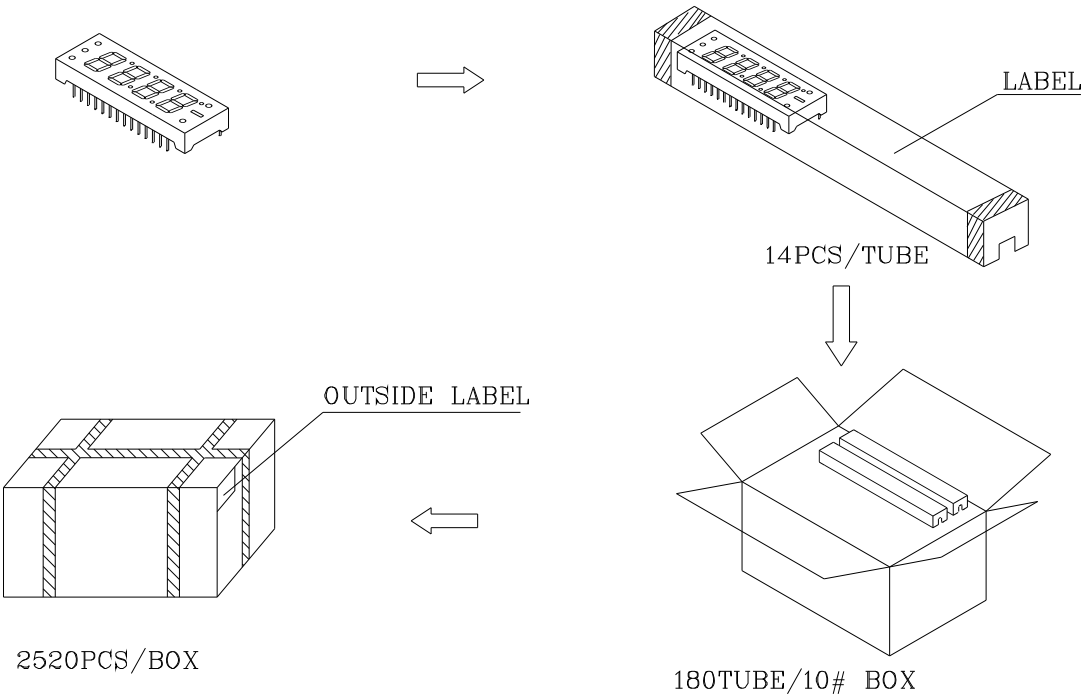
Remarks:

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:

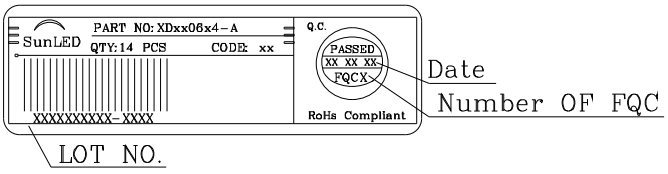
1. Wavelength: +/-1nm
2. Luminous Intensity/ luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS **XDUY06A4-A**



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box