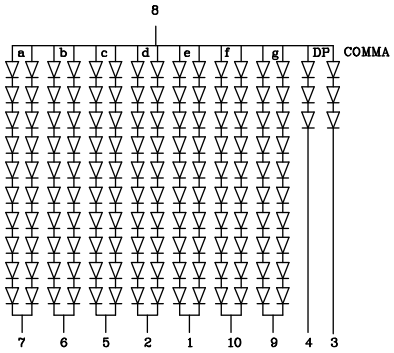
SunLED
www.SunLEDusa.com

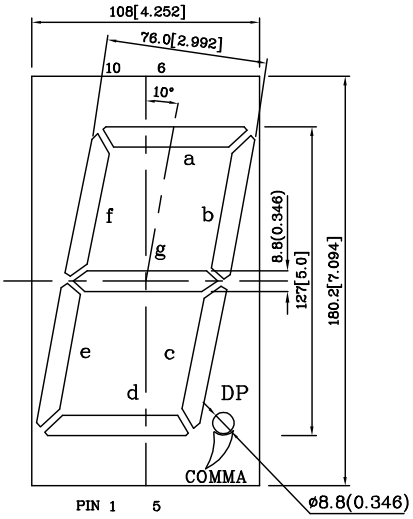
Part Number: **XDUR127A-A**

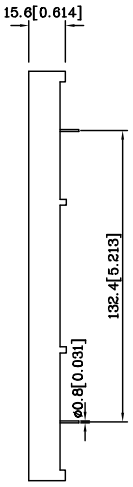
127mm (5.0") SEVEN SEGMENT DISPLAY

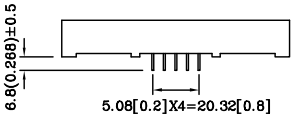
Features

- 5.0 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.









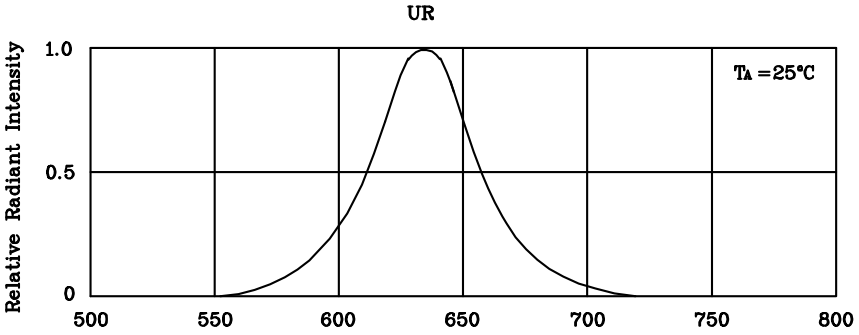
Notes:

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)		**UR (GaAsP/ GaP)**	**Unit**
Reverse Voltage Per Segment Or (Dp And Comma)	VR	50 (15)	V
DC Forward Current Per Segment Or (Dp And Comma)	IF	60 (30)	mA
Forward Current (Peak) Per Segment Or (Dp And Comma) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	320 (160)	mA
Power Dissipation Per Segment Or (Dp And Comma)	PT	1500 (225)	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3~5 Seconds		

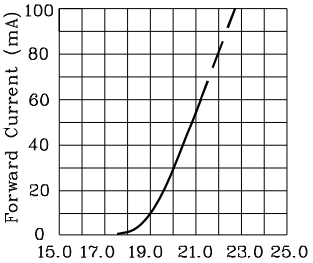
Operating Characteristics (TA=25°C)		**UR (GaAsP/ GaP)**	**Unit**
Forward Voltage (IF=10mA) (Typ.) Per Segment Or (Dp And Comma)	VF	19.0 (5.7)	V
Forward Voltage (IF=10mA) (Max.) Per Segment Or (Dp And Comma)	VF	25.0 (7.5)	V
Reverse Current (VR=50V(15V)) (Max.) Per Segment Or (Dp And Comma)	IR	20 (10)	uA
Wavelength Of Peak Emission (Typ.) (IF=10mA)	λ P	627	nm
Wavelength Of Dominant Emission (Typ.) (IF=10mA)	λ D	625	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA)	Δλ	45	nm
Capacitance (Per Segment) (Typ.) (VF=0V, f=1MHz)	C	15	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
XDUR127A-A	Red	GaAsP/GaP	18000	52290	627	Common Anode, Rt. Hand Decimal

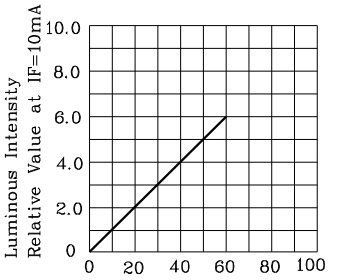


RELATIVE INTENSITY Vs. WAVELENGTH

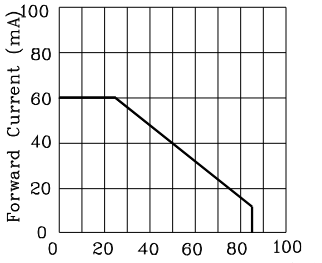
❖ **UR**



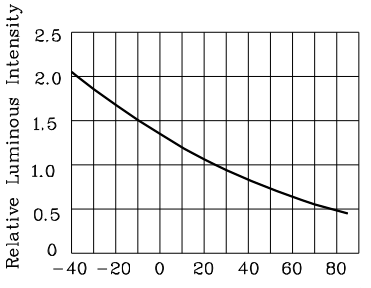
FORWARD CURRENT Vs.
FORWARD VOLTAGE



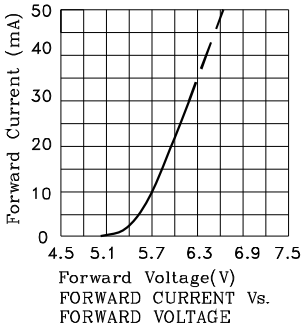
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



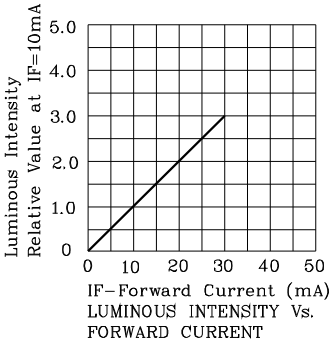
FORWARD CURRENT
DERATING CURVE



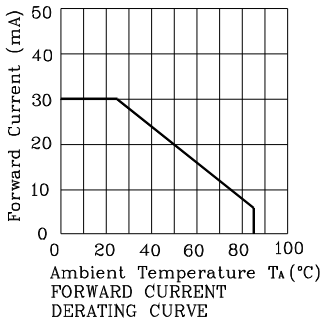
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



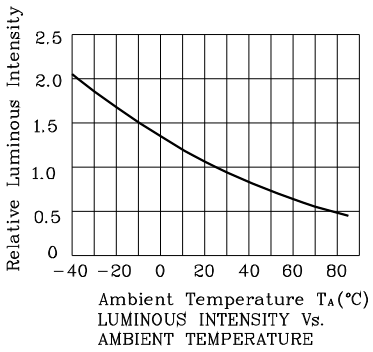
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

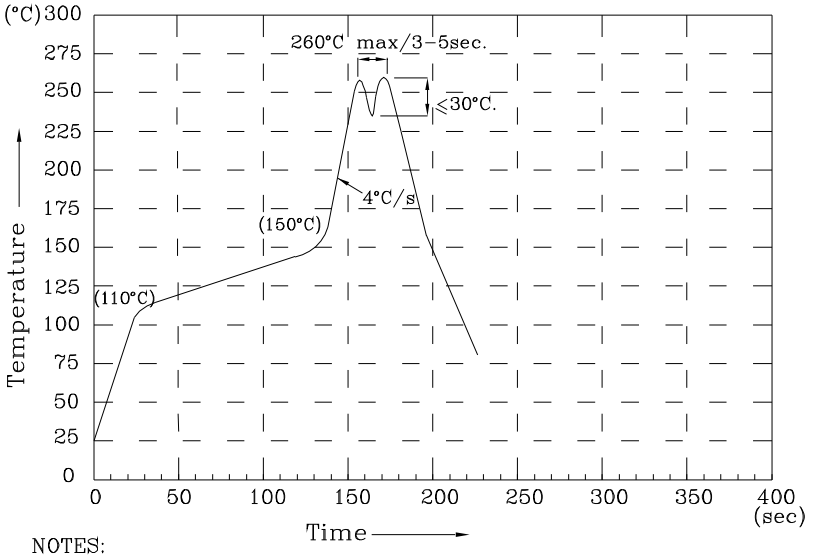


FORWARD CURRENT
DERATING CURVE



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.

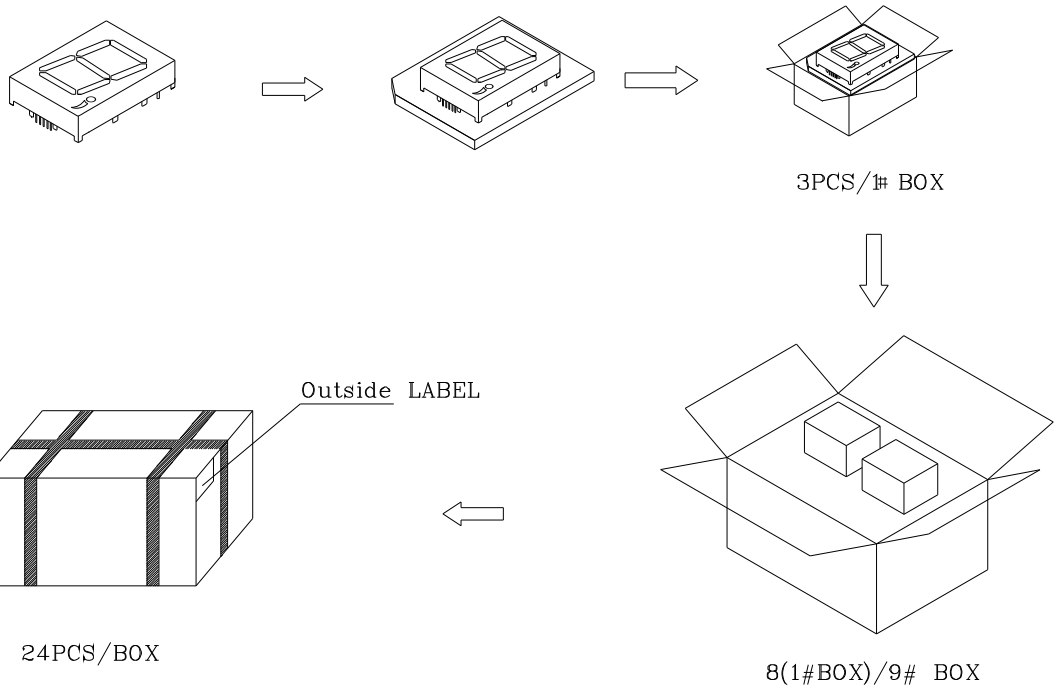
Remarks:

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:

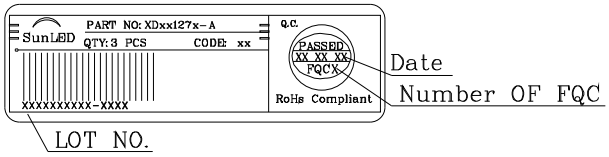
1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS XDUR127A-A



Inside LABEL Paste On The 1# Box



Outside LABEL Paste On The Box