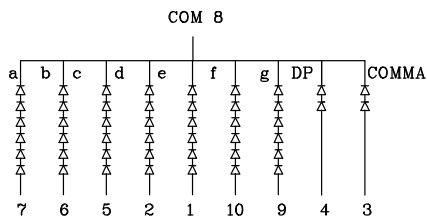


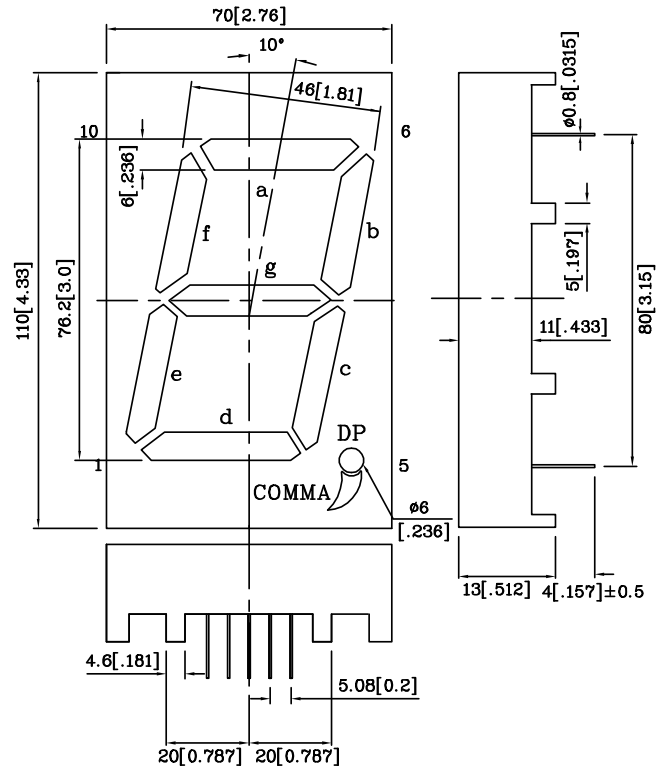
### Features

- 3.0 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:

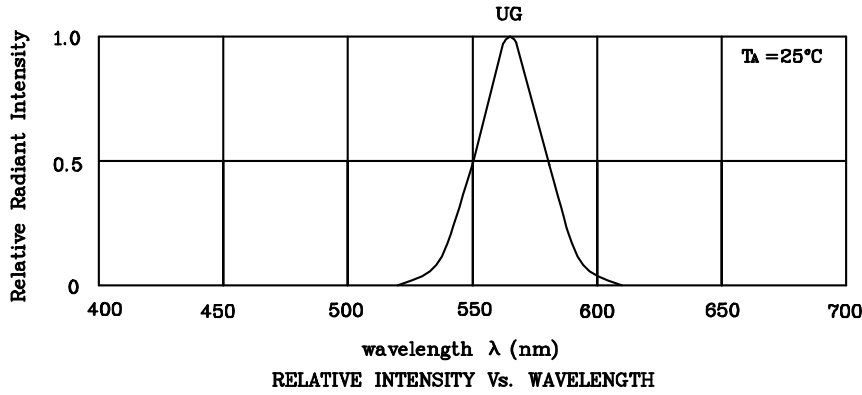
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.



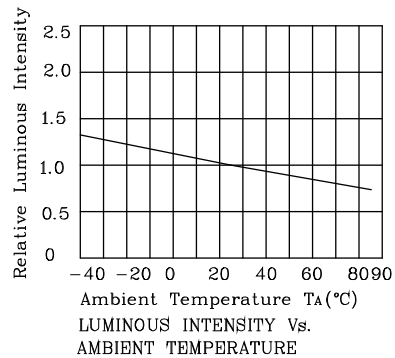
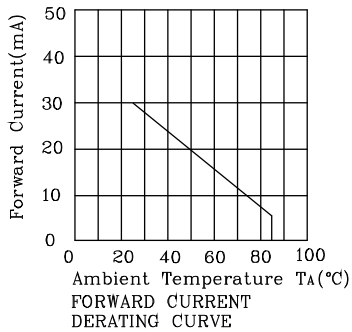
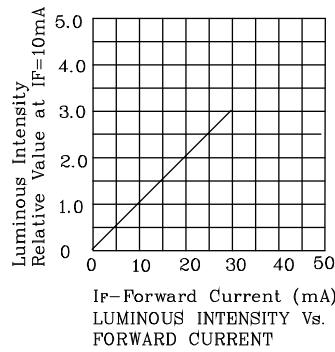
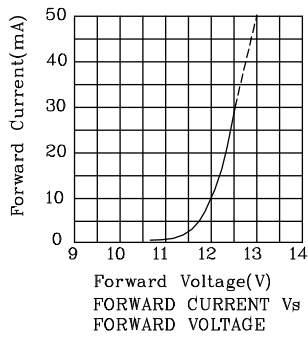
Absolute maximum ratings ( $T_A=25^\circ\text{C}$ )		UG (GaP)	Unit
Reverse Voltage Per Segment or (Dp and Comma)	$V_R$	30 (10)	V
Forward Current Per Segment or (Dp and Comma)	$I_F$	25 (25)	mA
Forward Current (Peak) Per Segment or (Dp and Comma) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{FS}$	140 (140)	mA
Power Dissipation Per Segment or (Dp and Comma)	$P_T$	375 (125)	mW
Operating Temperature	$T_A$	-40 ~ +85	°C
Storage Temperature	$T_{stg}$	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 5 Seconds		

Operating Characteristics ( $T_A=25^\circ\text{C}$ )		UG (GaP)	Unit
Forward Voltage (Typ.) Per Segment or (Dp and Comma) ( $I_F=10\text{mA}$ )	$V_F$	12.0 (4.0)	V
Forward Voltage (Max.) Per Segment or (Dp and Comma) ( $I_F=10\text{mA}$ )	$V_F$	15.0 (5.0)	V
Reverse Current Per Segment or (Dp and Comma) ( $V_R=30(10\text{V})$ )	$I_R$	10 (10)	$\mu\text{A}$
Wavelength of Peak Emission ( $I_F=10\text{mA}$ )	$\lambda_P$	565	nm
Wavelength of Dominant Emission ( $I_F=10\text{mA}$ )	$\lambda_D$	568	nm
Spectral Line Full Width At Half- Maximum ( $I_F=10\text{mA}$ )	$\Delta\lambda$	30	nm
Capacitance ( $V_F=0\text{V}$ , $f=1\text{MHz}$ )	C	15	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity ( $I_F=10\text{mA}$ ) ucd		Wavelength nm $\lambda_P$	Description
			min.	typ.		
XDUG76C	Green	GaP	4700	18615	565	Common Cathode, Rt. Hand Decimal



❖ **UG**



Remarks:

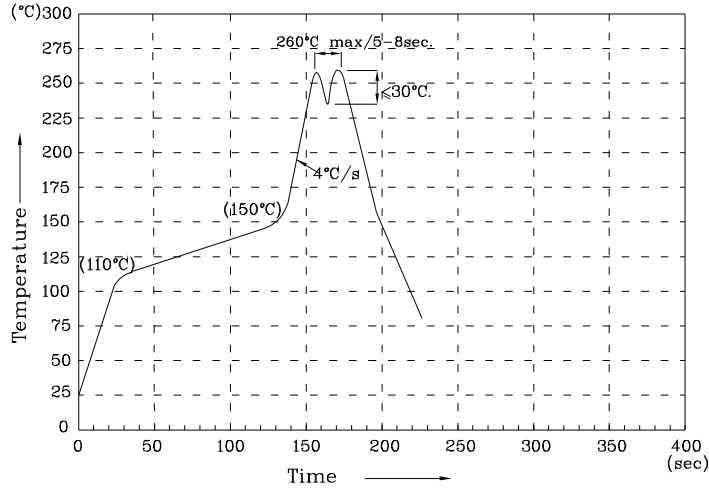
If special sorting is required (e.g. binning based on forward voltage, luminous intensity or wavelength), the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters.

**XDUG76C**

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.