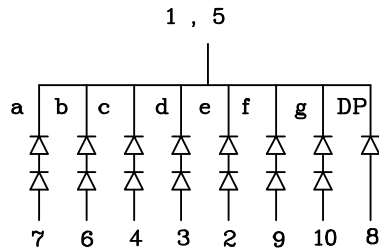
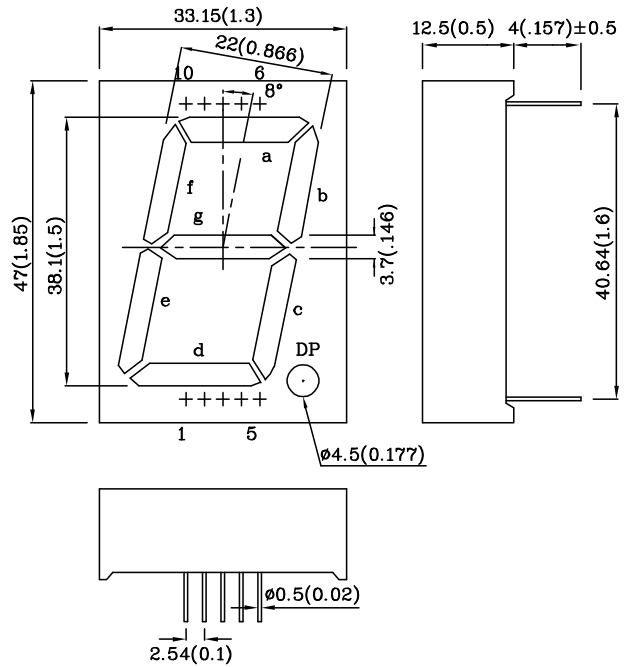


Features

- 1.5 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- HIGH LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MULTICOLOR AVAILABLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.



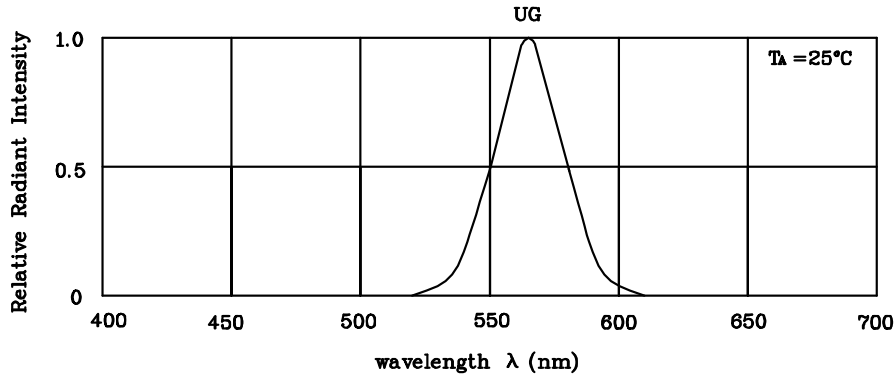
Notes:

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)	V_R	10(5) V
Forward Current Per Segment or (Dp)	I_F	25(25) mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width Per Segment or (Dp)	i_{FS}	140(140) mA
Power Dissipation Per Segment or (Dp)	P_T	125(62.5) mW
Operating Temperature	T_A	-40 ~ +85 $^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ +85
Lead Solder Temperature [2mm Below Package Base]	260 $^\circ\text{C}$ For 5 Seconds	

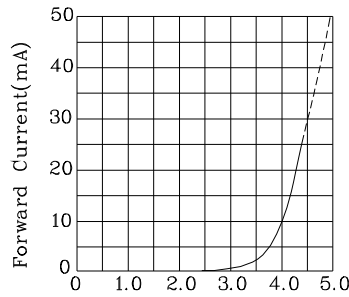
Operating Characteristics ($T_A=25^\circ\text{C}$)	UG (GaP)	Unit
Forward Voltage (Typ.) ($I_F=10\text{mA}$) Per Segment or (Dp)	V_F	4.0(2.0) V
Forward Voltage (Max.) ($I_F=10\text{mA}$) Per Segment or (Dp)	V_F	5.0(2.5) V
Reverse Current ($V_R=10\text{V}(5\text{V})$) Per Segment or (Dp)	I_R	10 (10) μA
Wavelength of Peak Emission ($I_F=10\text{mA}$)	λ_P	565 nm
Wavelength of Dominant Emission ($I_F=10\text{mA}$)	λ_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 (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
XDUG38C	Green	GaP	4700	23990	565	Common Cathode, Rt. Hand Decimal

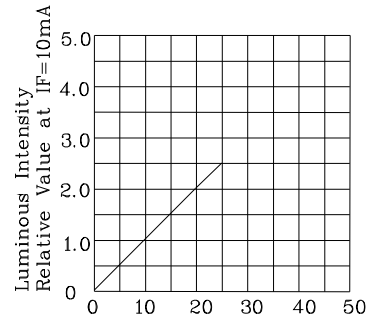


RELATIVE INTENSITY Vs. WAVELENGTH

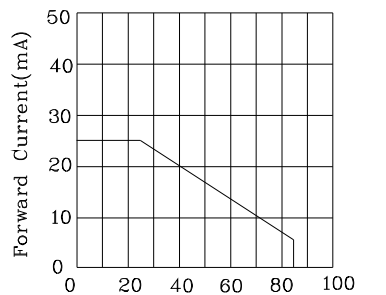
❖ UG



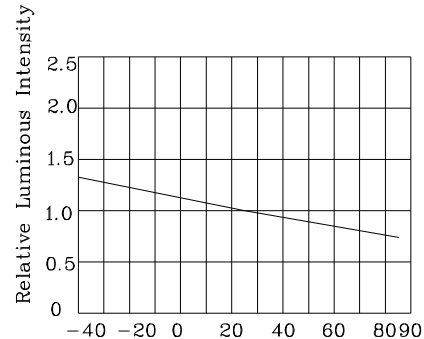
Forward Voltage(V)
 FORWARD CURRENT Vs
 FORWARD VOLTAGE



IF-Forward Current (mA)
 LUMINOUS INTENSITY Vs.
 FORWARD CURRENT

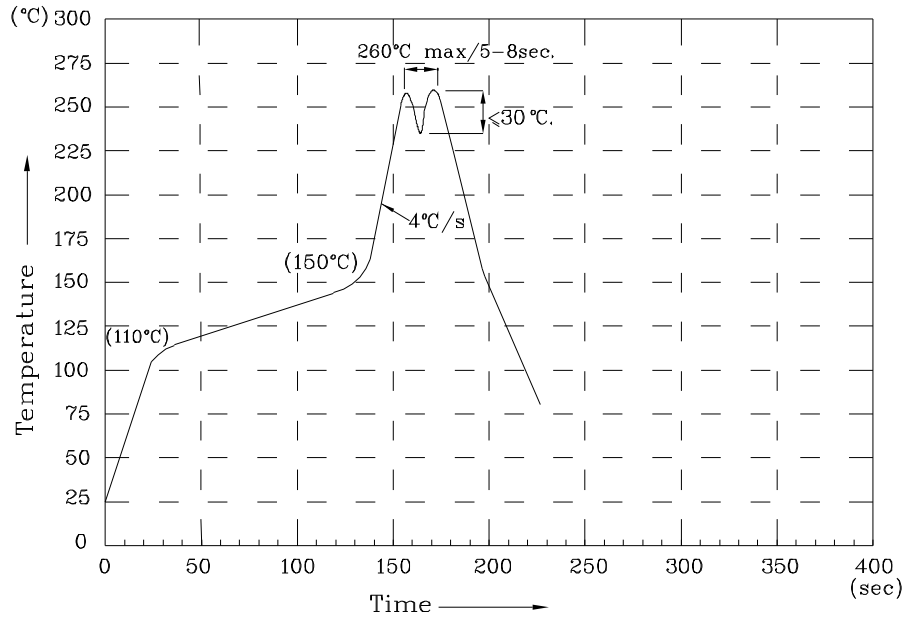


Ambient Temperature T_A ($^\circ\text{C}$)
 FORWARD CURRENT
 DERATING CURVE



Ambient Temperature T_A ($^\circ\text{C}$)
 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, 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.