SunLED
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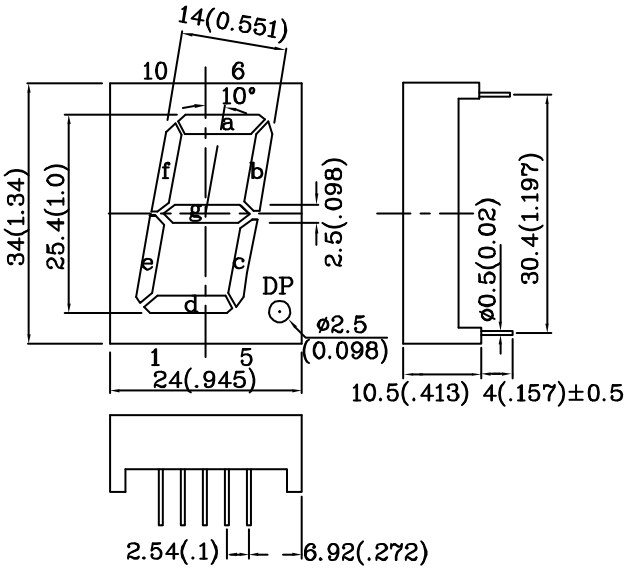
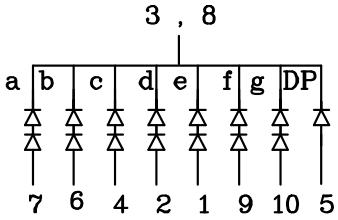
Part Number: **XDUG25C**

25.4mm (1.0 ") SINGLE DIGIT NUMERIC DISPLAY

Features

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





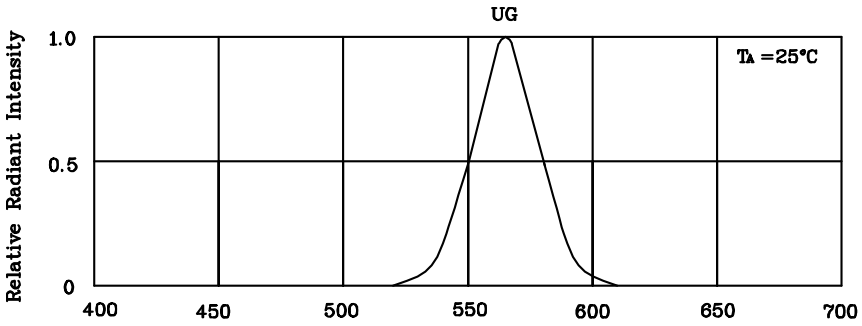
Notes:

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

Absolute Maximum Ratings (TA=25°C)		**UG (GaP)**	**Unit**
Reverse Voltage Per Segment or (Dp)	VR	10(5)	V
Forward Current Per Segment or (Dp)	IF	25(25)	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width Per Segment or (Dp)	iFS	140(140)	mA
Power Dissipation Per Segment or (Dp)	PT	125(62.5)	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 5 Seconds		

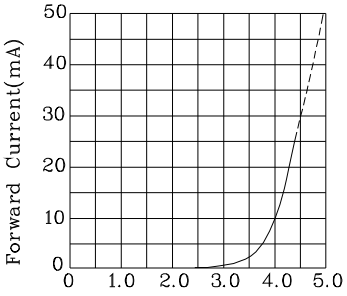
Operating Characteristics (TA=25°C)		**UG (GaP)**	**Unit**
Forward Voltage (Typ.) (IF=10mA) Per Segment or (Dp)	VF	4.0(2.0)	V
Forward Voltage (Max.) (IF=10mA) Per Segment or (Dp)	VF	5.0(2.5)	V
Reverse Current (VR=10V(5V)) Per Segment or (Dp)	IR	10 (10)	uA
Wavelength of Peak Emission (IF=10mA)	λ P	565	nm
Wavelength of Dominant Emission (IF=10mA)	λ D	568	nm
Spectral Line Full Width At Half-Maximum (IF=10mA)	Δλ	30	nm
Capacitance (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.		
XDUG25C	Green	GaP	4700	23990	565	Common Cathode, Rt. Hand Decimal

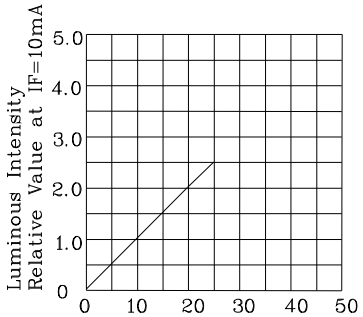


RELATIVE INTENSITY Vs. WAVELENGTH

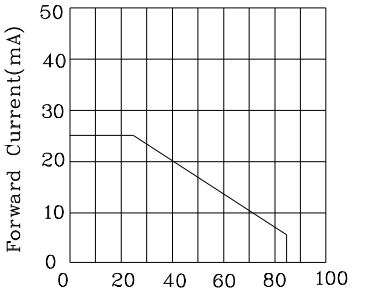
❖ **UG**



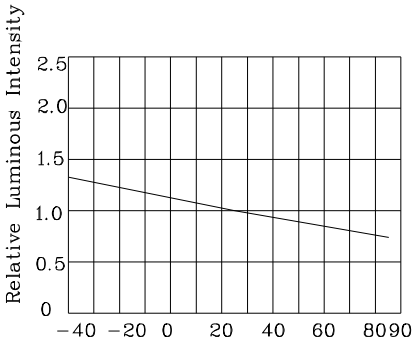
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

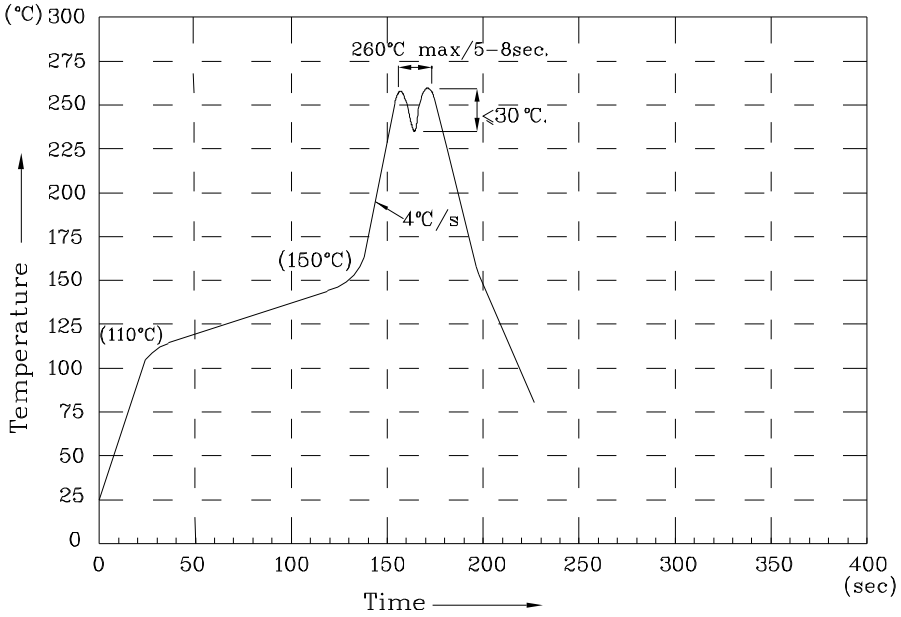


FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

1. Recommend the wave temperature 245℃~260℃. The maximum soldering temperature should be less than 260℃.
2. Do not apply stress on epoxy resins when temperature is over 85 degree℃.
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.