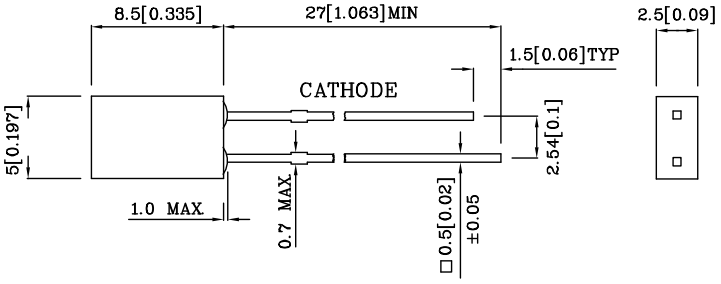
SunLED
www.SunLED.com

Part Number: **XSUG68D**

2. 5x5mm RECTANGULAR SOLI D LAMP

Features

- LOW POWER CONSUMPTION.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.



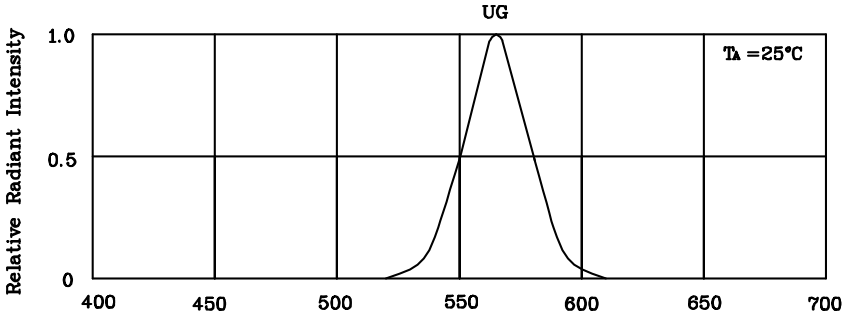
Notes:

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	VR	5	V
Forward current	IF	25	mA
Forward current (peak) 1/10Duty cycle 0.1ms pulse width	iFS	140	mA
Power dissipation	PT	105	mW
Operating temperature	TA	-40 ~ +85	°C
Storage temperature	Tstg	-40 ~ +85	
Lead solder temperature [2mm below package base]	260°C For 5 Seconds		

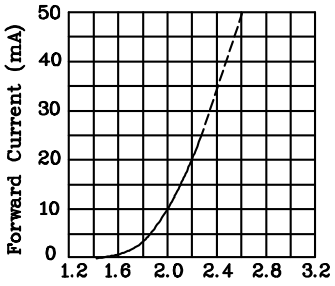
Operating Characteristics (TA=25°C)		**UG (GaP)**	**Unit**
Forward voltage (typ.) (IF=10mA)	VF	2.0	V
Forward voltage (max.) (IF=10mA)	VF	2.5	V
Reverse current (VR=5V)	IR	10	uA
Wavelength at peak emission (IF=10mA)	λ peak	565	nm
Wavelength at Dominate emission (IF=10mA)	λ D	568	nm
Spectral Line half-width (IF=10mA)	Δλ	30	nm
Capacitance (VF=0V, f=1MHz)	C	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=10mA) mcd		Wavelength nm λ P	Viewing Angle 2 θ 1/2
				min.	typ.		
XSUG68D	Green	GaP	Green Diffused	1	2.5	565	110°

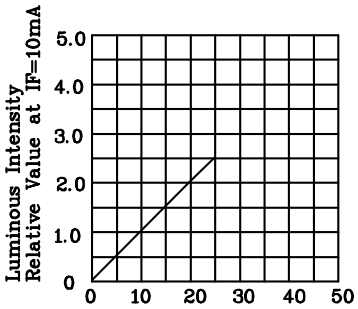


RELATIVE INTENSITY Vs. WAVELENGTH

❖ UG

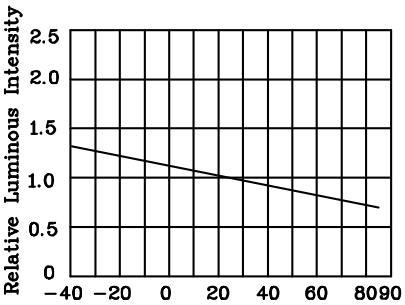


FORWARD CURRENT Vs.
FORWARD VOLTAGE

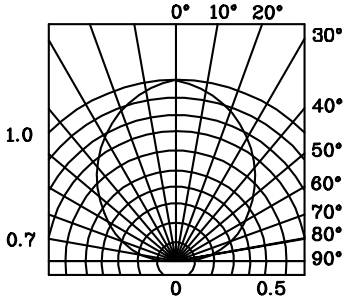


LUMINOUS INTENSITY Vs.
FORWARD CURRENT

FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION