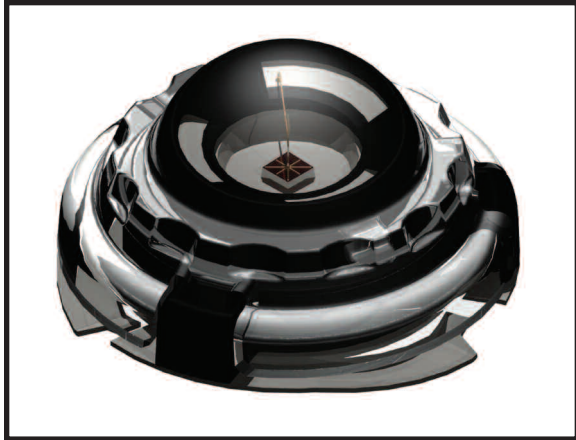




...the power is in the package



9900-1201-12

Red Power LED

Screw thread design

Lambertian radiation pattern



Typical Device Characteristics @ 350mA

Luminous Flux	40 lumens
Dominant Wavelength	625 nm
Forward Voltage	2.30 V
Viewing Angle	130°

Product Features

- Solder-Free mechanical attachment for easy installation and replacement
- Annular contact arrangement eliminates need for radial alignment
- Excellent thermal coupling to lighting system
- Large LED chip allows high drive current
- Outstanding light output
- Wide viewing angle
- UV resistant cover lens
- RoHS Compliant

Device Characteristics

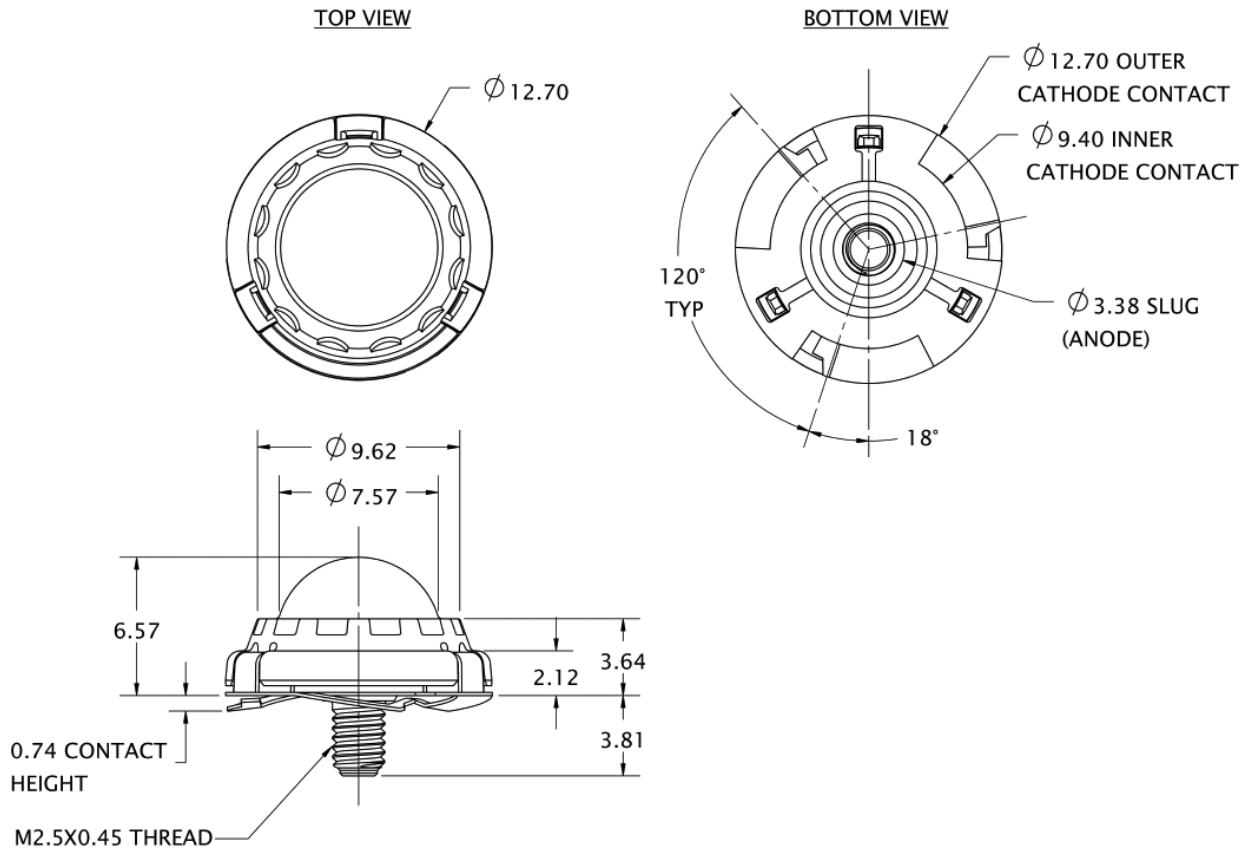
Forward Current = 350mA, Junction Temperature, $T_j = 25^\circ\text{C}$

	Minimum	Typical	Maximum
Luminous Flux (ϕ_v)	28 lm	40 lm	
Dominant Wavelength (λ_D)	617 nm	625 nm	632 nm
Peak Wavelength (λ_p)		636 nm	
Spectral Half-Width ($\Delta\lambda^{1/2}$)		19 nm	
Viewing Angle ($2\theta^{1/2}$)		130°	
Forward Voltage (V_f)	2.00 V	2.30 V	3.00 V
Dynamic Resistance (R_D)		1.0 Ω	
Thermal Resistance ($R\theta_{j-c}$)		12°C/W	

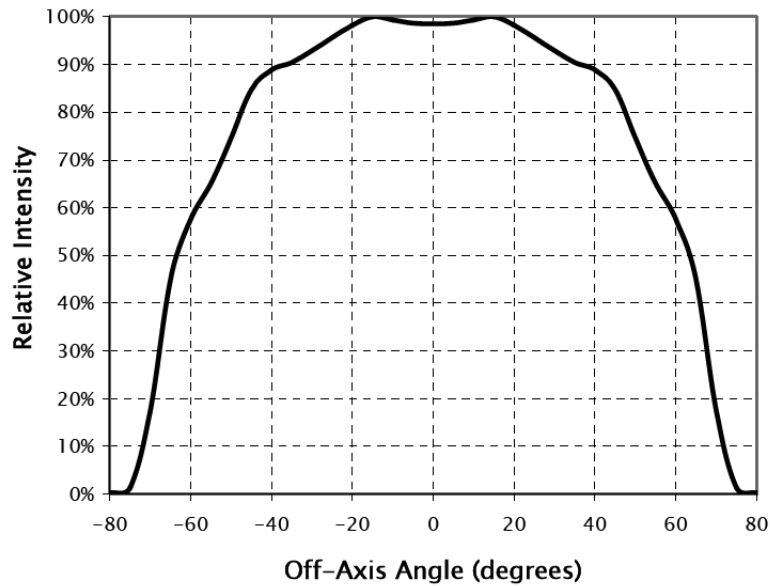
Absolute Maximum Ratings

DC Forward Current	500 mA
Peak Pulsed Forward Current	750 mA
Maximum Pulse Duty Cycle	50%
Maximum Pulse Duration	10 ms
Reverse Voltage	> 5 V
LED Junction Temperature	125°C
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +100°C

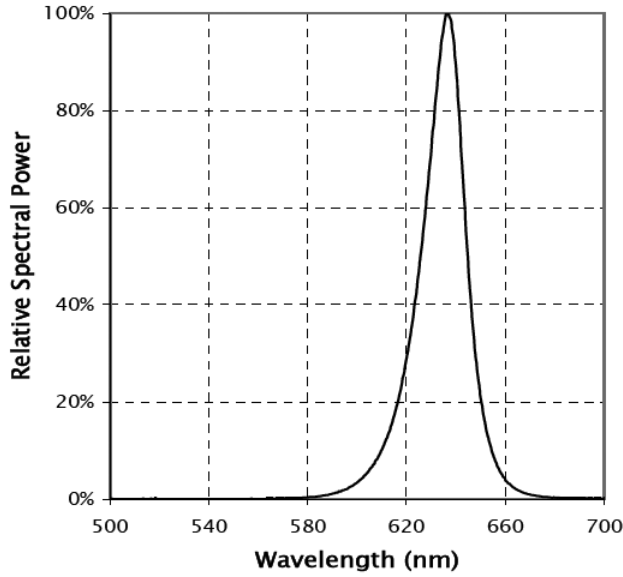
Mechanical Dimensions



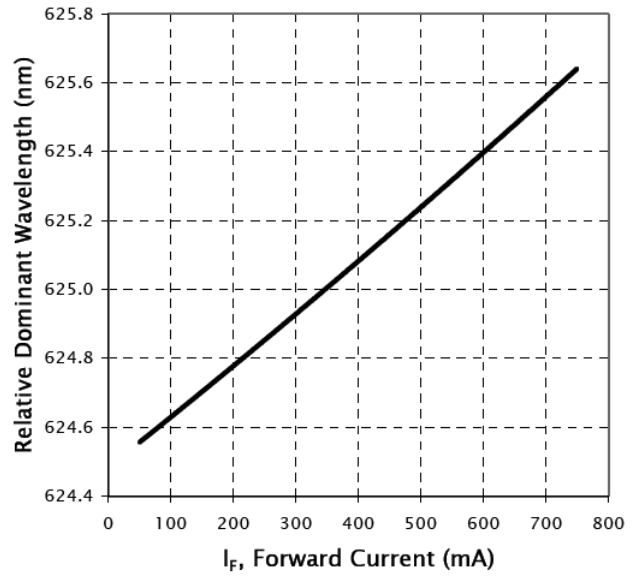
Spatial Distribution Pattern



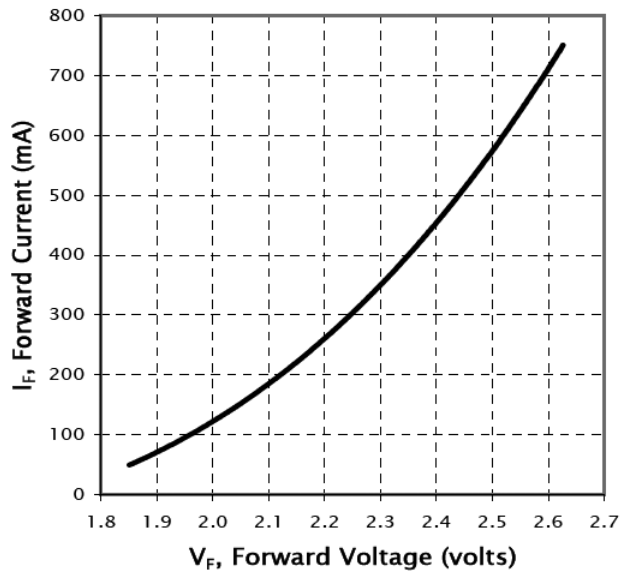
Spectral Power Distribution



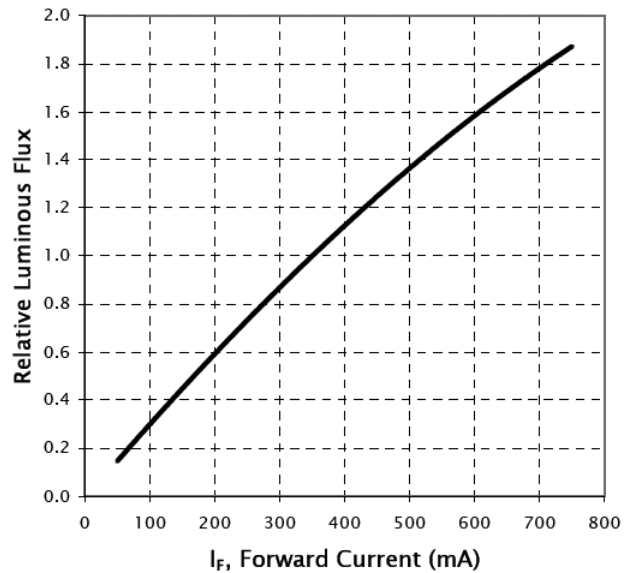
Wavelength vs. Forward Current



Forward Voltage vs. Forward Current



Luminous Flux vs. Forward Current



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Weldon Technologies reserves the right to make changes at any time to product specifications without notice.