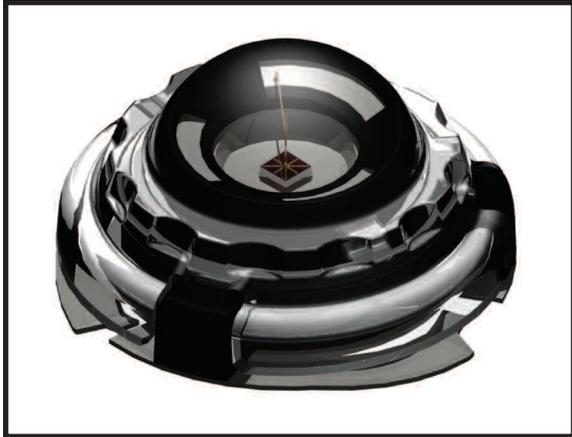




...the power is in the package



## 9900-1201-13

**Red Power LED**

**Screw thread design**

**Lambertian radiation pattern**



### Typical Device Characteristics @ 350mA

<b>Luminous Flux</b>	<b>95 lumens</b>
<b>Dominant Wavelength</b>	<b>625 nm</b>
<b>Forward Voltage</b>	<b>2.30 V</b>
<b>Viewing Angle</b>	<b>130°</b>

### 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

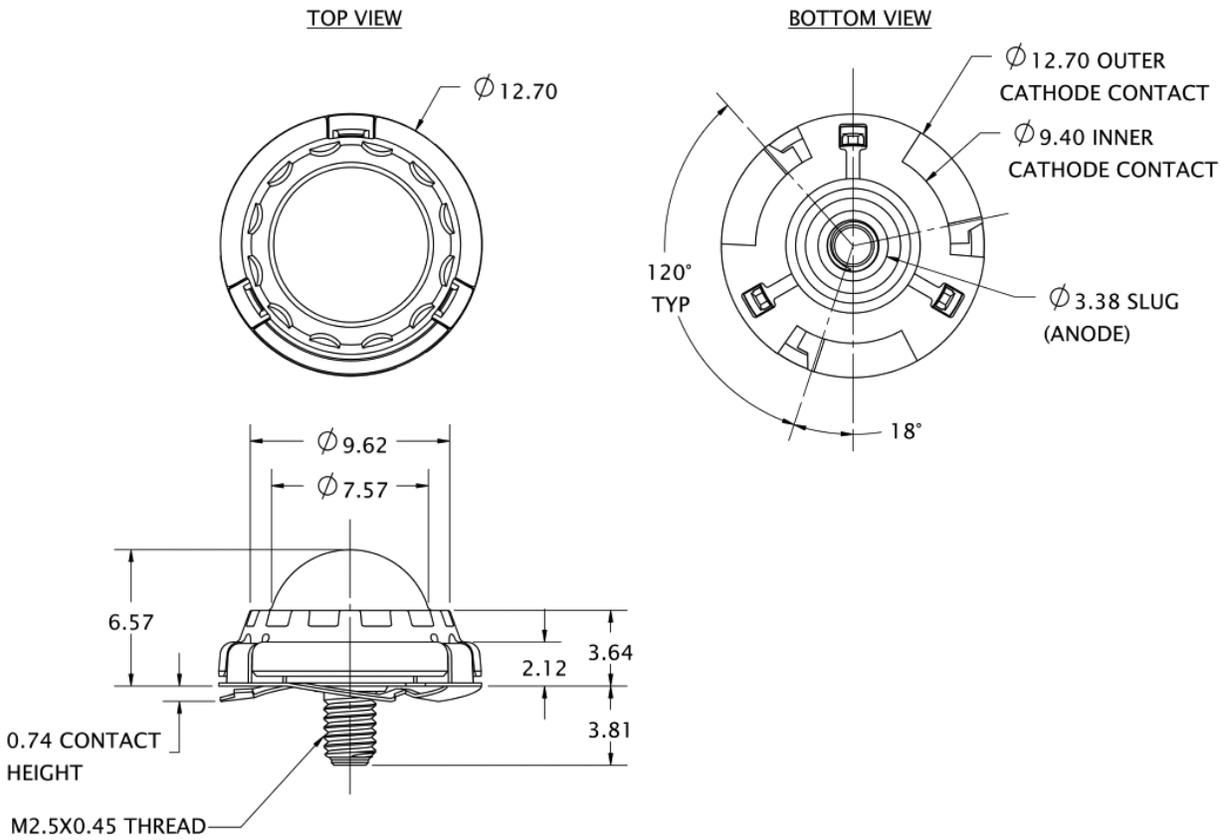
Forward Current = 350mA, Junction Temperature,  $T_j = 25^\circ\text{C}$

	Minimum	Typical	Maximum
Luminous Flux ( $\phi_v$ )	68 lm	95 lm	
Dominant Wavelength ( $\lambda_D$ )	617 nm	625 nm	632 nm
Peak Wavelength ( $\lambda_p$ )		637 nm	
Spectral Half-Width ( $\Delta\lambda^{1/2}$ )		18 nm	
Viewing Angle ( $2\theta^{1/2}$ )		130°	
Forward Voltage ( $V_f$ )	2.00 V	2.30 V	3.00 V
Dynamic Resistance ( $R_D$ )		0.7 $\Omega$	
Thermal Resistance ( $R\theta_{j-c}$ )		10°C/W	

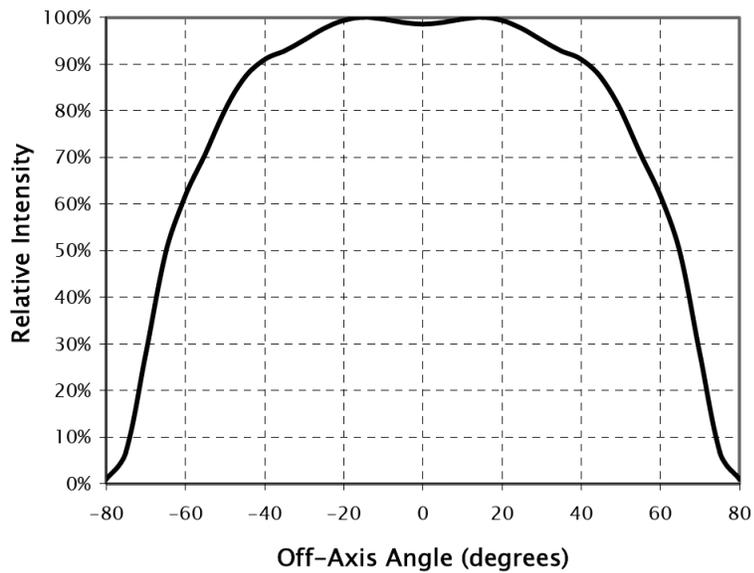
## Absolute Maximum Ratings

DC Forward Current	750 mA
Peak Pulsed Forward Current	1 A
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

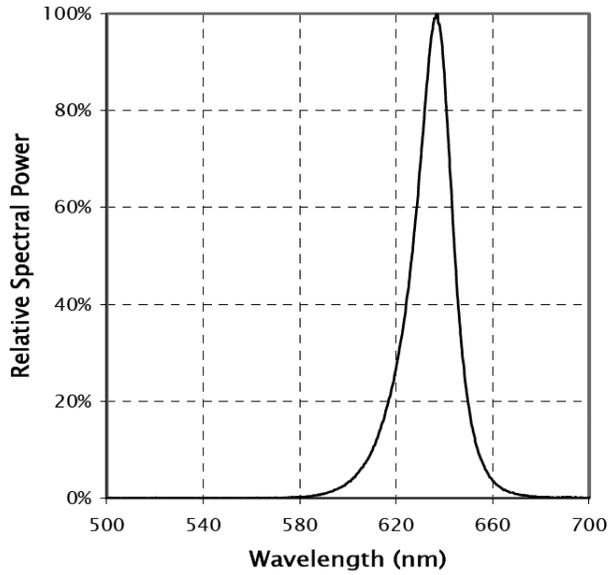
# Mechanical Dimensions



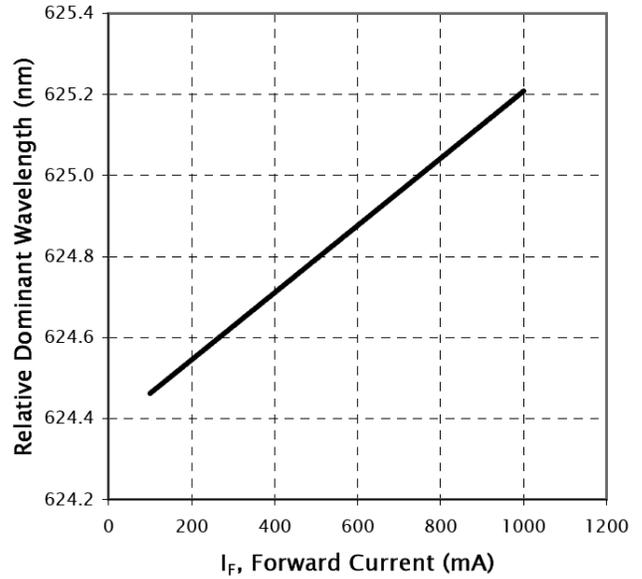
# Spatial Distribution Pattern



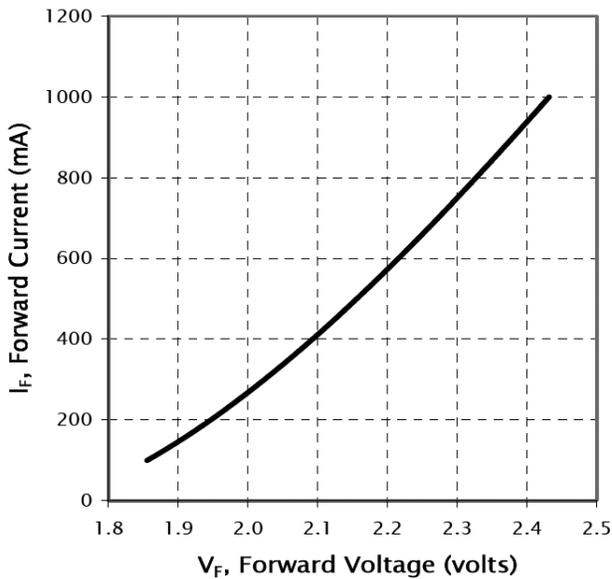
## Spectral Power Distribution



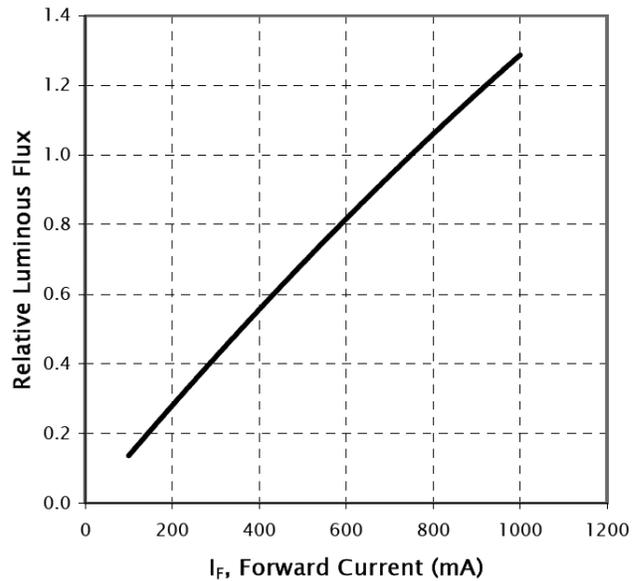
## Wavelength vs. Forward Current



## Forward Voltage vs. Forward Current



## Luminous Flux vs. Forward Current



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