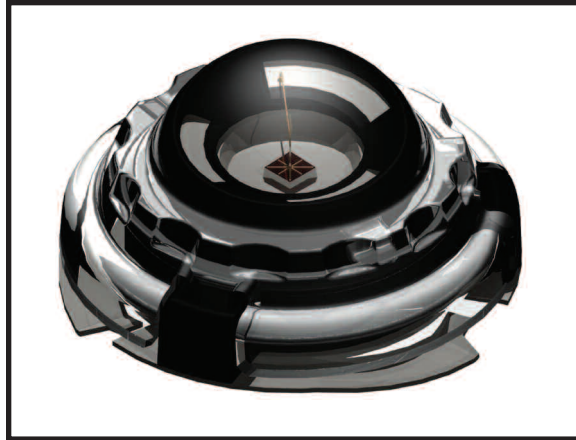




...the power is in the package



## 9900-1201-77

**Green Power LED**

**Screw thread design**

**Lambertian radiation pattern**



### Typical Device Characteristics @ 350mA

|                            |                  |
|----------------------------|------------------|
| <b>Luminous Flux</b>       | <b>50 lumens</b> |
| <b>Dominant Wavelength</b> | <b>525 K</b>     |
| <b>Forward Voltage</b>     | <b>3.50 V</b>    |
| <b>Viewing Angle</b>       | <b>120°</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

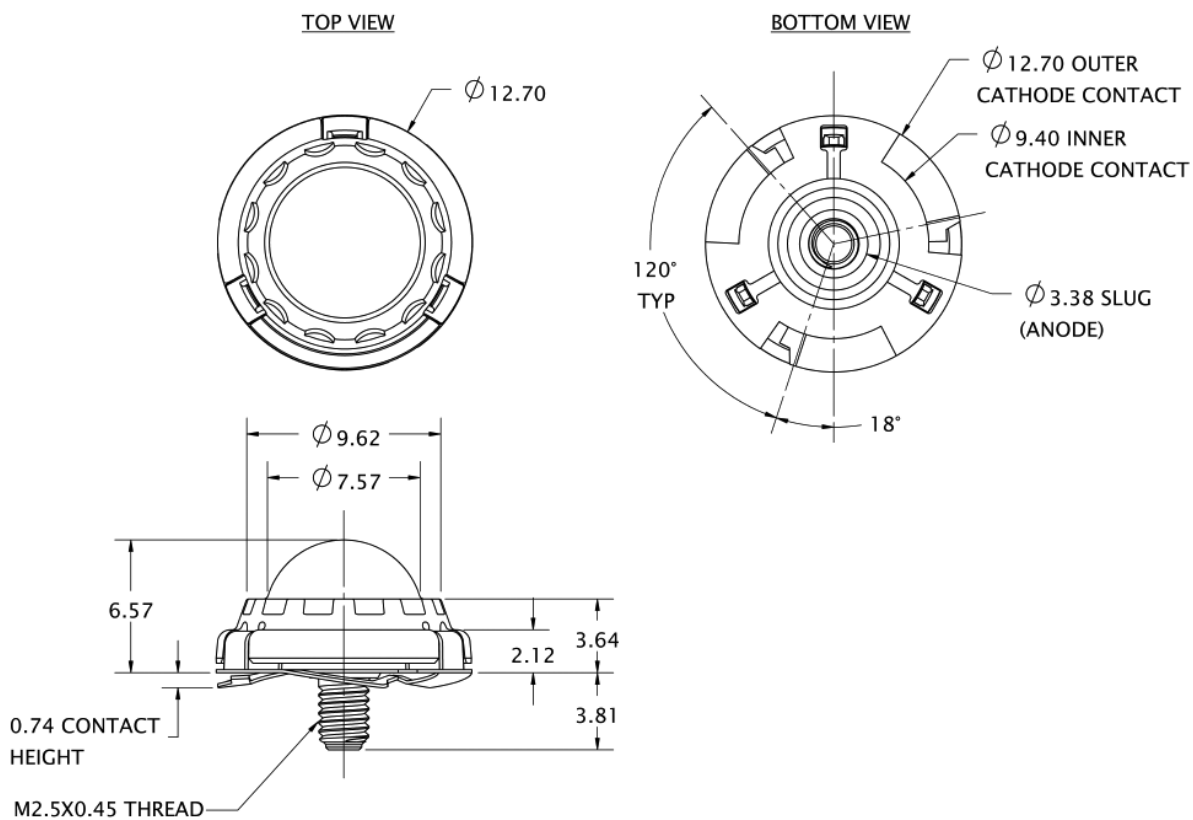
Forward Current = 350mA, Junction Temperature,  $T_j = 25^\circ\text{C}$

|   | Minimum | Typical      | Maximum |
|---|---------|--------------|---------|
| Luminous Flux ( $\phi_v$ )                    | 35 lm   | 50 lm        |         |
| Dominant Wavelength ( $\lambda_D$ )           | 515 nm  | 525 nm       | 540 nm  |
| Peak Wavelength ( $\lambda_p$ )               |         | 519 nm       |         |
| Spectral Half-Width ( $\Delta\lambda^{1/2}$ ) |         | 39 nm        |         |
| Viewing Angle ( $2\theta^{1/2}$ )             |         | 120°         |         |
| Forward Voltage ( $V_f$ )                     | 3.00 V  | 3.50 V       | 4.10 V  |
| Dynamic Resistance ( $R_D$ )                  |         | 1.3 $\Omega$ |         |
| Thermal Resistance ( $R\theta_{j-c}$ )        |         | 10°C/W       |         |

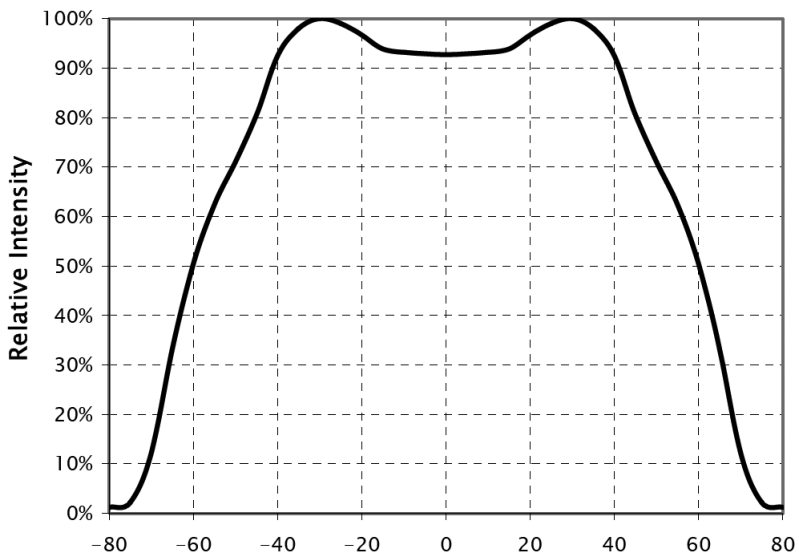
## Absolute Maximum Ratings

|                             |                 |
|-----------------------------|-----------------|
| DC Forward Current          | 350 mA          |
| Peak Pulsed Forward Current | 500 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 |

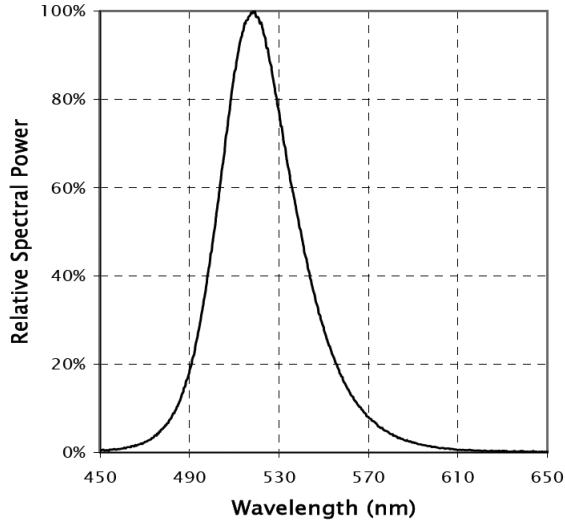
# Mechanical Dimensions



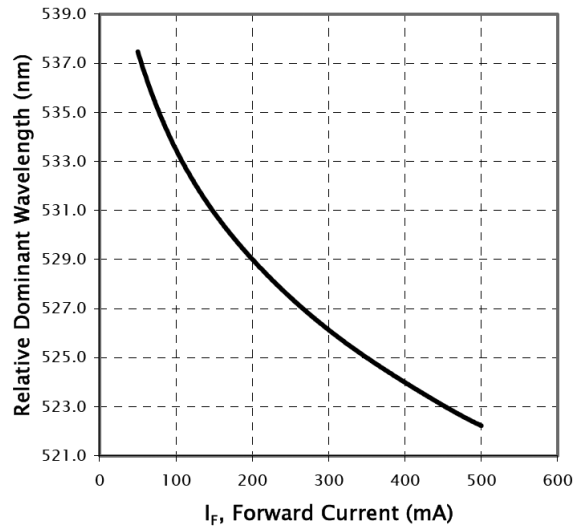
# Spatial Distribution Pattern



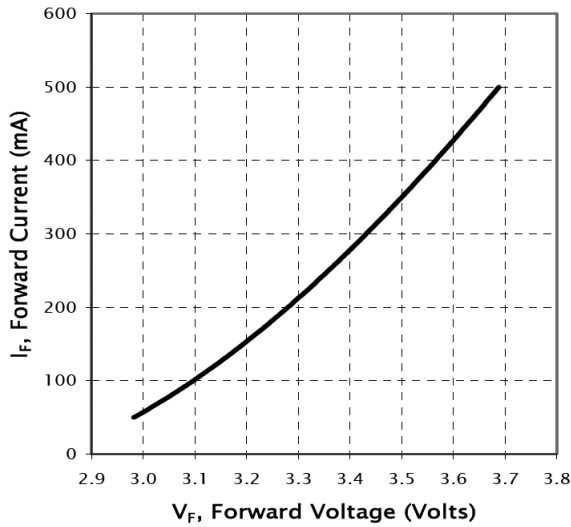
### Spectral Power Distribution



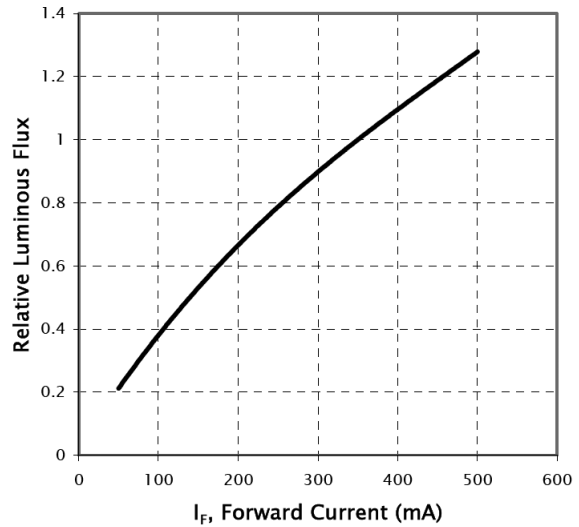
### Wavelength vs. Forward Current



### Forward Voltage vs. Forward Current



### Luminous Flux vs. Forward Current



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