



FEATURES

- Narrow Beam Angle
- Convenient TO-39 Package with Leads
- Hermetic Package

Electro-Optical Characteristics at 25 °C

| Parameters | Test Conditions | Min | Typ | Max | Units |
|--|-------------------------|-----|-----|-----|-------|
| Total Power Output, P _o | I _F = 350 mA | 80 | 170 | | mW |
| Dominant Emission Wavelength, λ _d | I _F = 350 mA | 465 | 470 | 475 | nm |
| Spectral Bandwidth at 50%, Δλ | I _F = 350 mA | | 22 | | nm |
| Half Intensity Beam Angle, θ | I _F = 350 mA | | 7 | | Deg |
| Forward Voltage, V _F | I _F = 350 mA | | 3.2 | 3.8 | V |
| Reverse Breakdown Voltage, V _R | I _R = 2 μA | 5 | | | V |

Absolute Maximum Ratings at 25°C

| Parameters | Units |
|---|---------|
| Power Dissipation (Infinite Heatsink) | 1000 mW |
| Continuous Forward Current | 350 mA |
| Peak Forward Current (1/10 Duty Cycle @ 1 kHz) | 2 A |
| Reverse Voltage | 5 V |
| Lead Soldering Temperature (1/16" from Case for 10 sec) | 260°C |

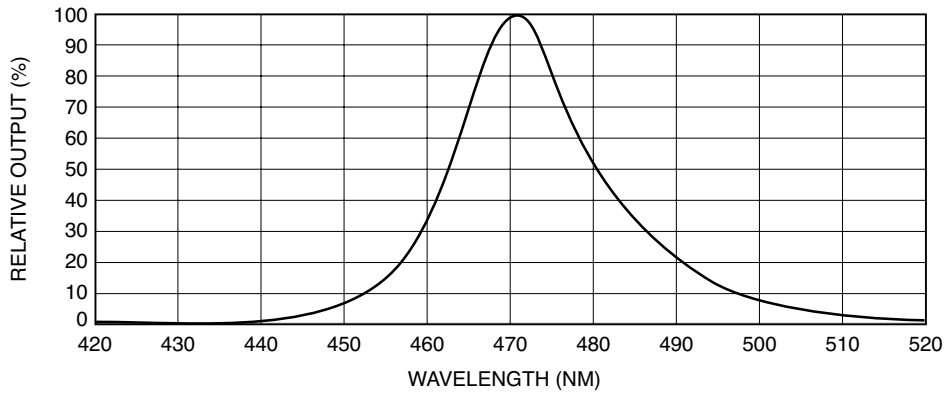
Thermal Parameters

| Parameters | Units |
|--|-----------------|
| Storage and Operating Temperature Range | -55°C to 100°C |
| Maximum Junction Temperature | 125°C |
| Thermal Resistance, R _{THJA} ¹ | 150°C/W Typical |
| Thermal Resistance, R _{THJA} ² | 60°C/W Typical |

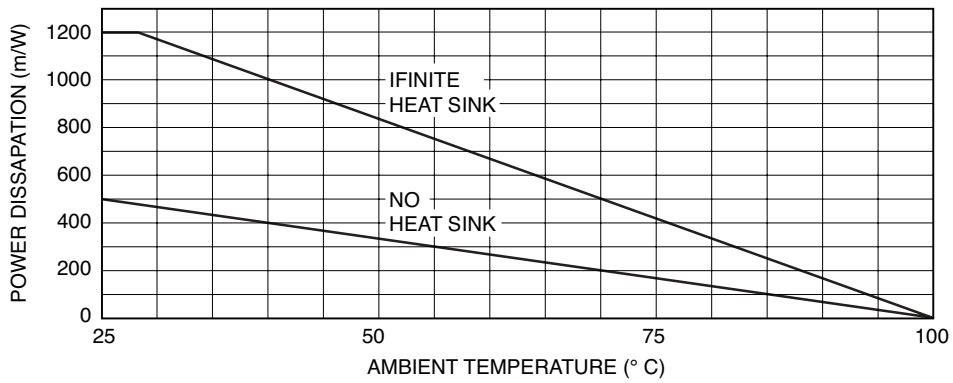
¹ Heat transfer minimized by measuring in still air with minimum heat conducting through leads.

² Air circulating at a rapid rate to keep case temperature at 25°C.

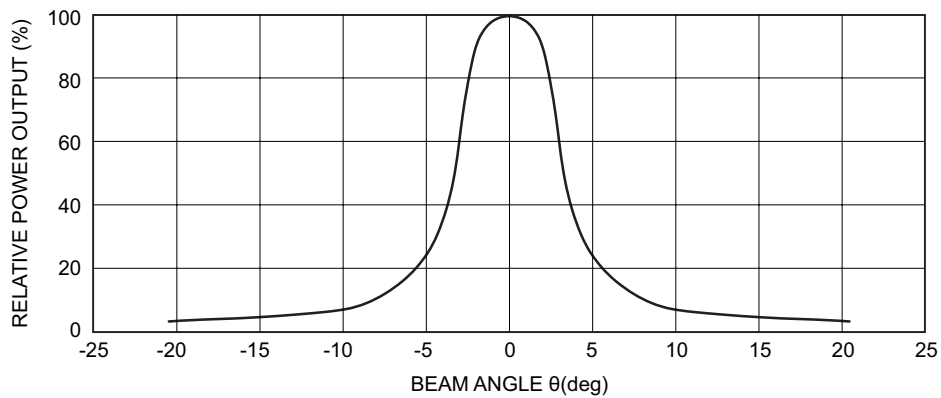
Spectral Output



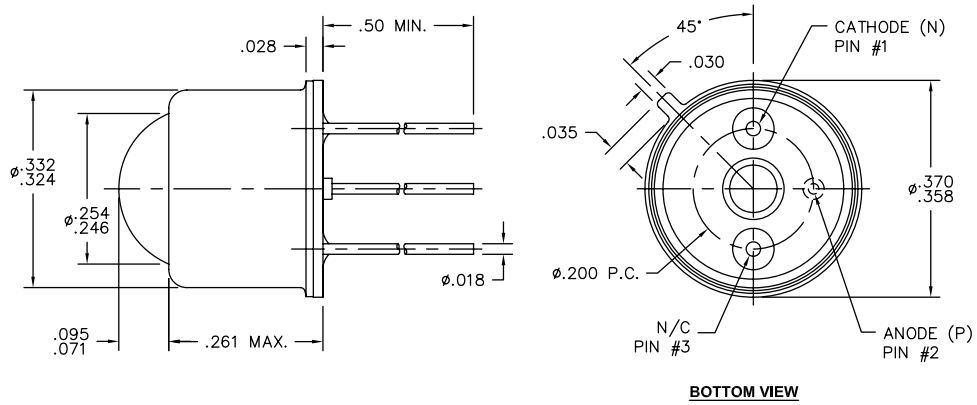
Maximum Rated Thermal Derating Curve



Typical Radiation Pattern



Package Information



Dimensions are nominal values in inches unless otherwise specified.

Specifications are subject to change without prior notice.