

PRELIMINARY SPEC

Part Number: L-816BGD

GREEN

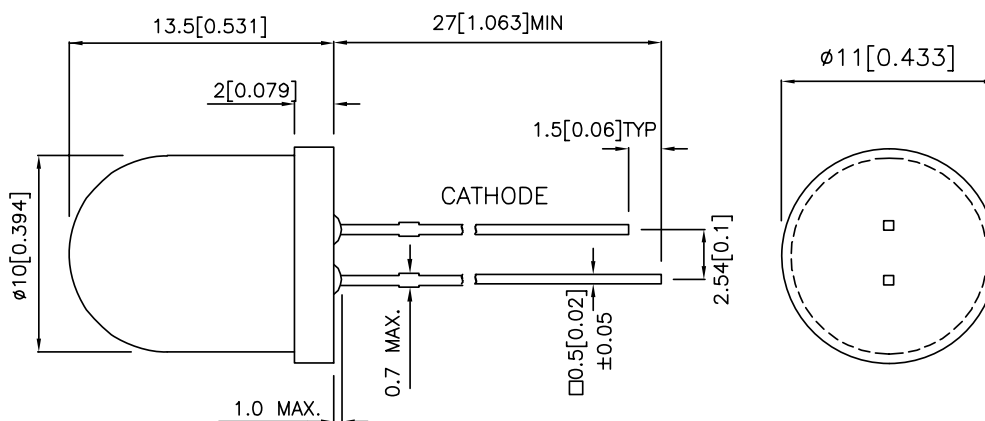
Features

- 10mm DIAMETER BIG LAMP WITH BUILT-IN BLINKING IC.
- OPERATION VOLTAGE FROM 3.5V to 14V.
- BLINKING FREQUENCY FROM 3.0Hz to 1.5Hz.
- RoHS COMPLIANT.

Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25 (0.01)$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge from the package.
4. Specifications are subject to change without notice.



Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) V=9V | | Viewing Angle |
|----------|-------------|----------------|------------------|------|---------------|
| | | | Min. | Typ. | 2θ1/2 |
| L-816BGD | GREEN (GaP) | GREEN DIFFUSED | 10 | 50 | 60° |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

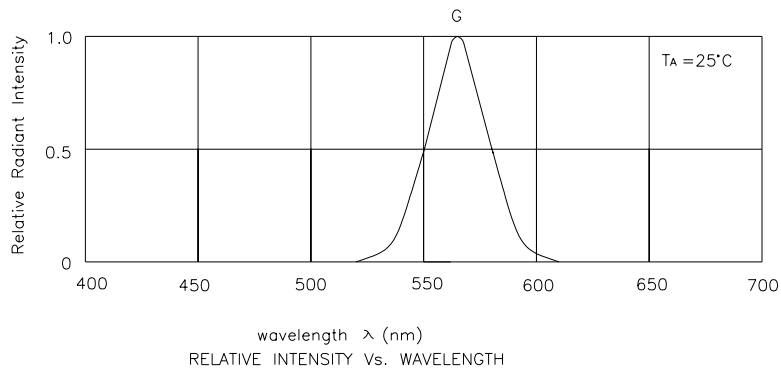
| Symbol | Parameter | Device | Min. | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|--------|------|------|------|-------|--|
| λ _{peak} | Peak Wavelength | Green | | 565 | | nm | |
| λ _D | Dominant Wavelength | Green | | 568 | | nm | |
| Δλ _{1/2} | Spectral Line Half-width | Green | | 30 | | nm | |
| I _F | Forward Current | Green | 8 | 22 | | mA | Min:V _F =3.5V Typ:V _F =5V |
| I _{SON} | Supply Current | Green | | 8 | | mA | V _F = 3.5V |
| I _{SON} | Supply Current | Green | | 44 | | mA | V _F = 14V |
| f | Blink Frequency | Green | 1.5 | | 3 | Hz | V _F = 3.5V~14V |

Absolute Maximum Ratings at TA=25°C

| Parameter | Green | Units |
|-----------------------------|---------------------|-------|
| Power dissipation | 310 | mW |
| Forward Voltage | 14 | V |
| Reverse Voltage | 0.5 | V |
| Operating Temperature | -40°C To +70°C | |
| Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [1] | 260°C For 3 Seconds | |
| Lead Solder Temperature [2] | 260°C For 5 Seconds | |

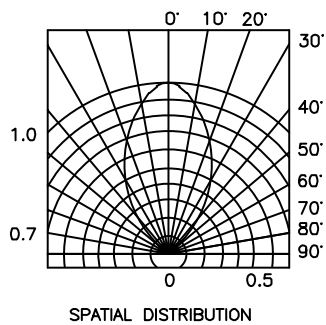
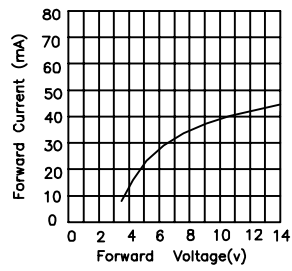
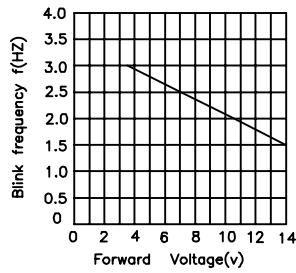
Notes:

1. 2mm below package base.
2. 5mm below package base.



Green

L-816BGD



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