

## Miniature LEDs

| Order code | Manufacturer code | Description                    |
|------------|-------------------|--------------------------------|
| 56-0105    | L-1060GD          | 1.8MM MINIATURE GREEN LED (RC) |

|                                                                                                                                                                                                  |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Miniature LEDs                                                                                                                                                                                   | Page 1 of 4              |
| The enclosed information is believed to be correct, Information may change without notice due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E. | Revision A<br>20/02/2007 |

L-2060GD

GREEN

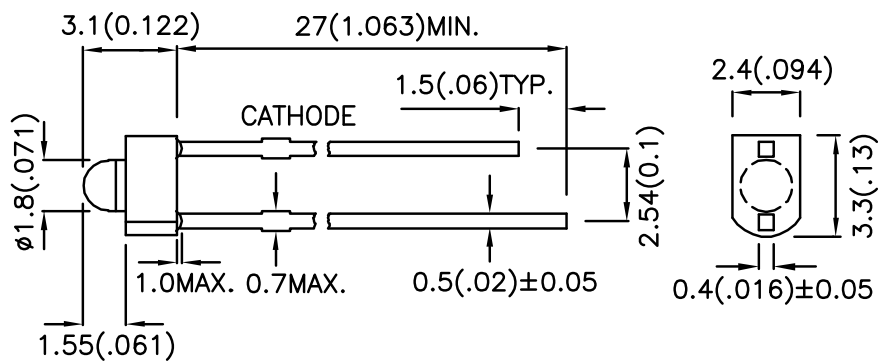
### Features

- 1.8mm DIAMETER SMALL SIZE LED LAMP.
- ULTRA BRIGHTNESS IS AVAILABLE.
- RELIABLE AND RUGGED.
- VERSATILE MOUNTING ON P.C. BOARD OR PANEL.
- AVAILABLE IN DIFFUSED LENS.
- 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 leads emerge from the package.
4. Specifications are subject to change without notice.

## Selection Guide

| Part No. | Dice        | Lens Type      | Iv (mcd)<br>@ 10mA |      | Viewing<br>Angle |
|----------|-------------|----------------|--------------------|------|------------------|
|          |             |                | Min.               | Typ. | 2θ1/2            |
| L-2060GD | GREEN (GaP) | GREEN DIFFUSED | 5                  | 10   | 70°              |

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 T<sub>A</sub>=25°C

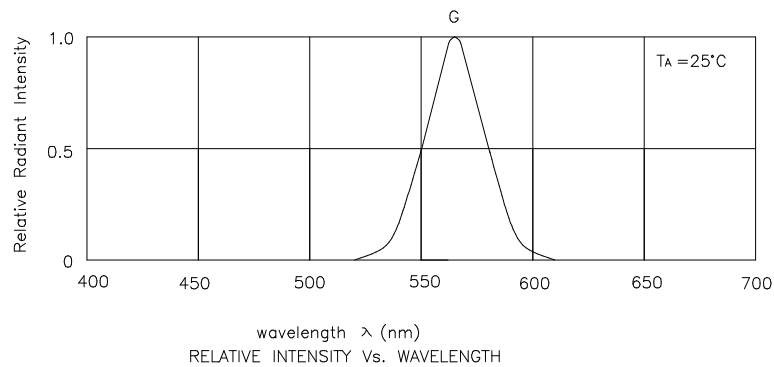
| Symbol            | Parameter                | Device | Typ. | Max. | Units | Test Conditions            |
|-------------------|--------------------------|--------|------|------|-------|----------------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Green  | 565  |      | nm    | I <sub>F</sub> =20mA       |
| λ <sub>D</sub>    | Dominant Wavelength      | Green  | 568  |      | nm    | I <sub>F</sub> =20mA       |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Green  | 30   |      | nm    | I <sub>F</sub> =20mA       |
| C                 | Capacitance              | Green  | 15   |      | pF    | V <sub>F</sub> =0V; f=1MHz |
| V <sub>F</sub>    | Forward Voltage          | Green  | 2.2  | 2.5  | V     | I <sub>F</sub> =20mA       |
| I <sub>R</sub>    | Reverse Current          | Green  |      | 10   | uA    | V <sub>R</sub> = 5V        |

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

| Parameter                     | Green               | Units |
|-------------------------------|---------------------|-------|
| Power dissipation             | 105                 | mW    |
| DC Forward Current            | 25                  | mA    |
| Peak Forward Current [1]      | 140                 | mA    |
| Reverse Voltage               | 5                   | V     |
| Operating/Storage Temperature | -40°C To +85°C      |       |
| Lead Solder Temperature [2]   | 260°C For 3 Seconds |       |
| Lead Solder Temperature [3]   | 260°C For 5 Seconds |       |

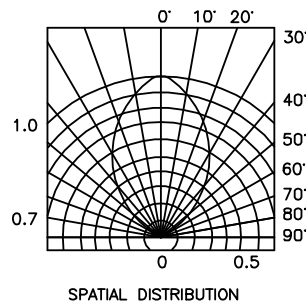
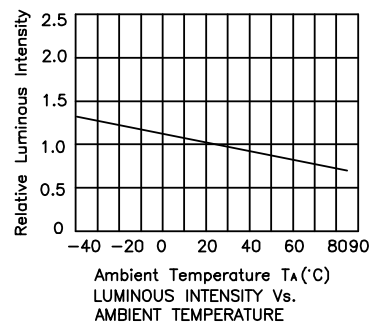
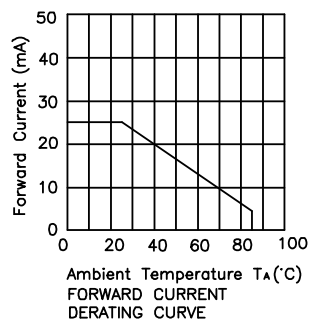
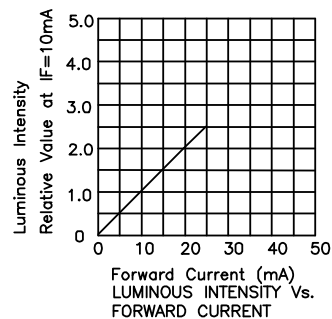
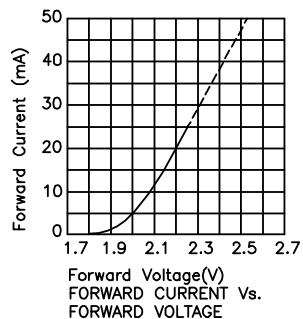
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



Green

L-2060GD



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength:  $\pm 1\text{nm}$
2. Luminous Intensity:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.