

## 5mm LEDs

| Order code | Manufacturer code | Description            |
|------------|-------------------|------------------------|
| 56-1555    | L-7113GD-12V      | 5MM 12V GREEN LED (RC) |

|  |                          |
|--|--------------------------|
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| 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>04/07/2003 |

L-7113GD-12V

GREEN

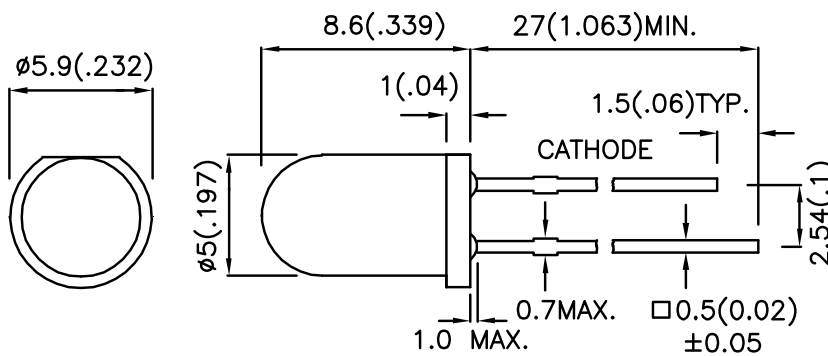
### Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 12V INTERNAL RESISTOR.
- 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>V= 12V |      | Viewing<br>Angle |
|--------------|-------------|----------------|--------------------|------|------------------|
|              |             |                | Min.               | Typ. | 2 θ 1/2          |
| L-7113GD-12V | GREEN (GaP) | GREEN DIFFUSED | 8                  | 20   | 30°              |

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

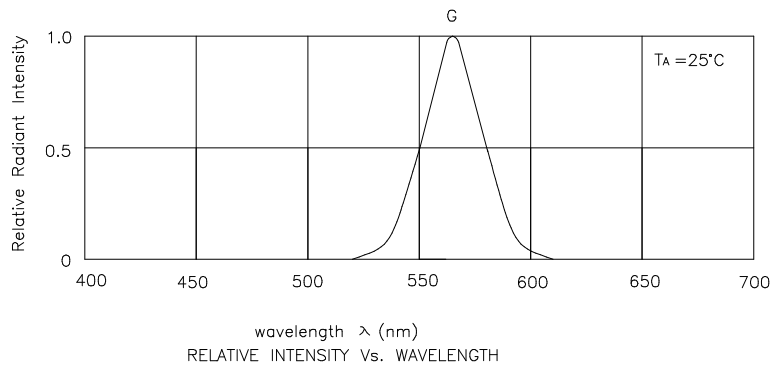
| Symbol            | Parameter                | Device | Typ. | Max. | Units | Test Conditions     |
|-------------------|--------------------------|--------|------|------|-------|---------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Green  | 565  |      | nm    | V <sub>F</sub> =12V |
| λ <sub>D</sub>    | Dominant Wavelength      | Green  | 568  |      | nm    | V <sub>F</sub> =12V |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Green  | 30   |      | nm    | V <sub>F</sub> =12V |
| I <sub>F</sub>    | Forward Current          | Green  | 8.5  | 11.5 | mA    | V <sub>F</sub> =12V |
| I <sub>R</sub>    | Reverse Current          | Green  |      | 10   | uA    | V <sub>R</sub> = 5V |

## Absolute Maximum Ratings at TA=25°C

| Parameter                  | Green               | Units |
|----------------------------|---------------------|-------|
| Power dissipation          | 120                 | mW    |
| Forward Voltage            | 14                  | V     |
| Reverse Voltage            | 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 |       |

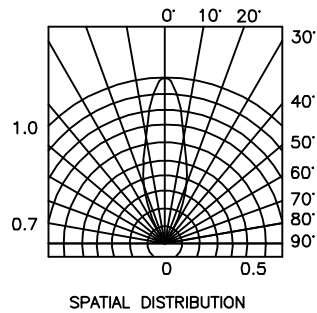
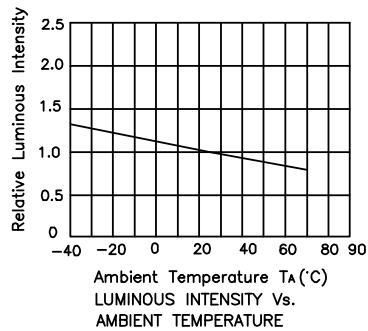
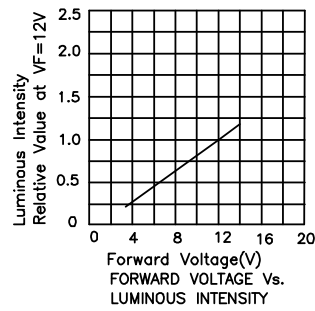
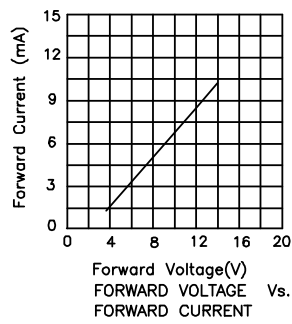
Notes:

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



**Green**

**L-7113GD-12V**



Remarks:

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

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%

Note: Accuracy may depend on the sorting parameters.