# 5mm LEDs

| Order code | Manufacturer code | Description |
|---|---|---|
| 56-1505 | L-7113GD-5V | 5MM 5V GREEN LED (RC) |



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Kingbright

**T-1 3/4 (5mm) SOLID STATE LAMP**

L-7113GD-5V GREEN

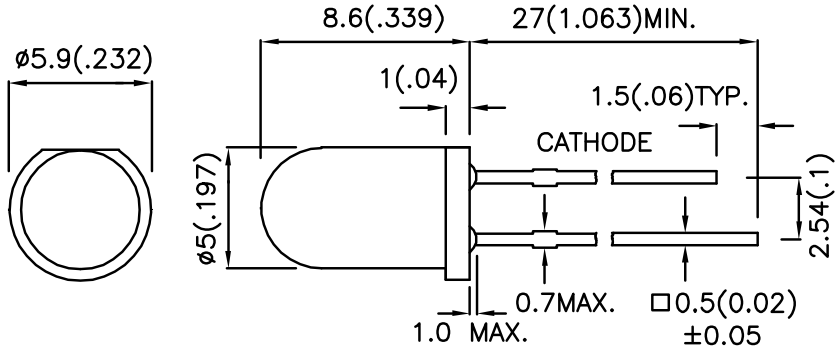
## Features

- 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.
- 5V 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 ±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.

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## Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) V=5V | | Viewing Angle |
|---|---|---|---|---|---|
| | | | Min. | Typ. | 2 θ 1/2 |
| L-7113GD-5V | 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.

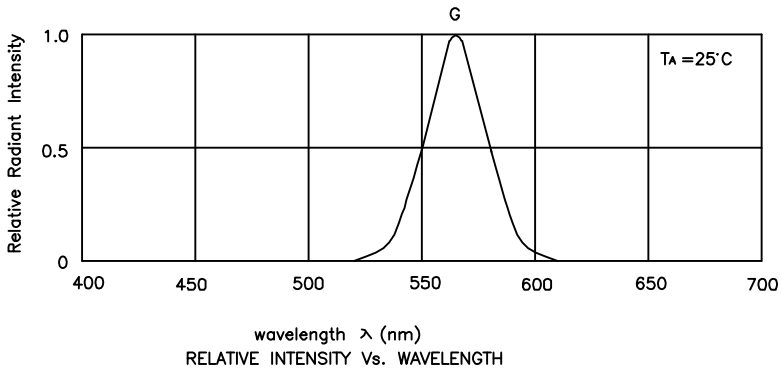
## Electrical / Optical Characteristics at $T_A$=25°C

| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|---|---|---|---|---|---|---|
| λpeak | Peak Wavelength | Green | 565 | | nm | $V_F$=5V |
| λD | Dominant Wavelength | Green | 568 | | nm | $V_F$=5V |
| Δλ1/2 | Spectral Line Half-width | Green | 30 | | nm | $V_F$=5V |
| $I_F$ | Forward Current | Green | 11.5 | 17.5 | mA | $V_F$=5V |
| $I_R$ | Reverse Current | Green | | 10 | uA | $V_R$= 5V |

## Absolute Maximum Ratings at $T_A$=25°C

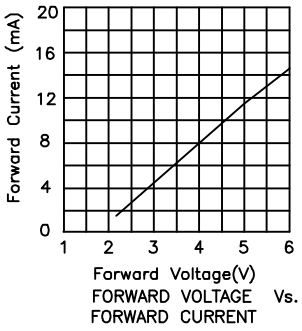
| Parameter | Green | Units |
|---|---|---|
| Power dissipation | 85 | mW |
| Forward Voltage | 6 | V |
| Reverse Voltage | 5 | V |
| Operating Temperature | -40°C To +70°C | |
| Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [1] | 260°C For 3 Seconds | |
| Lead Solder Temperature [2] | 260°C For 5 Seconds | |

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

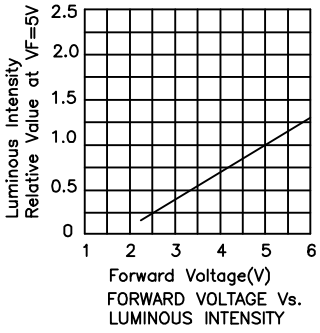


RELATIVE INTENSITY Vs. WAVELENGTH

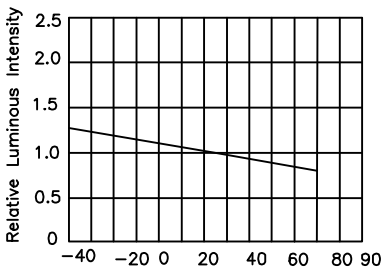
**Green** **L-7113GD-5V**



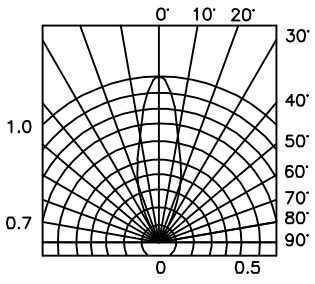
FORWARD VOLTAGE Vs. FORWARD CURRENT



FORWARD VOLTAGE Vs. LUMINOUS INTENSITY



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

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.