

L-7104GD-14V

GREEN

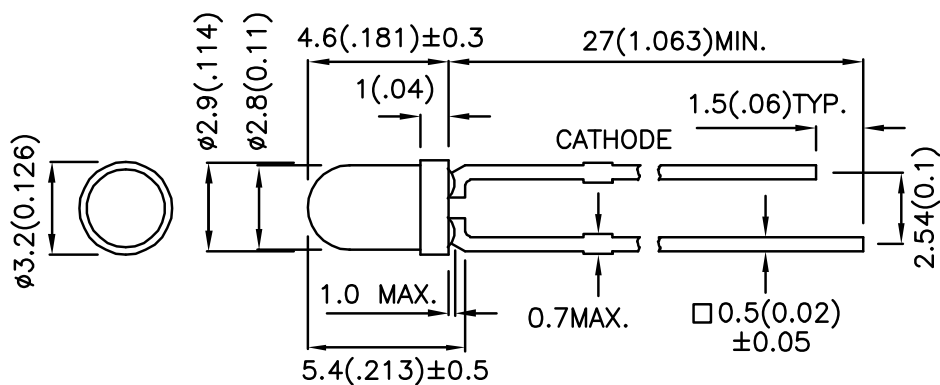
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 14V 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) V=14V | | Viewing Angle |
|--------------|-------------|----------------|-------------------|------|----------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| L-7104GD-14V | GREEN (GaP) | GREEN DIFFUSED | 8 | 20 | 40° |

Note:

1. θ 1/2 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 |
|-----------------------|--------------------------|--------|------|------|-------|---------------------|
| λ_{peak} | Peak Wavelength | Green | 565 | | nm | V _F =14V |
| λ_D | Dominant Wavelength | Green | 568 | | nm | V _F =14V |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Green | 30 | | nm | V _F =14V |
| I _F | Forward Current | Green | 10.5 | 13.5 | mA | V _F =14V |
| I _R | Reverse Current | Green | | 10 | uA | V _R = 5V |

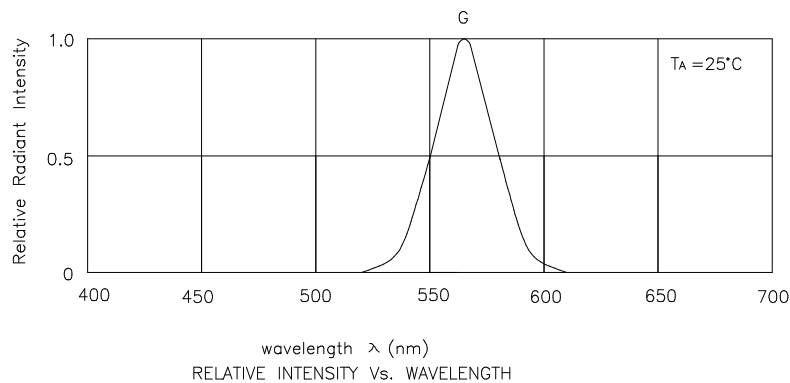
Absolute Maximum Ratings at T_A=25°C

| Parameter | Green | Units |
|----------------------------|---------------------|-------|
| Power dissipation | 160 | mW |
| Forward Voltage | 16 | 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:

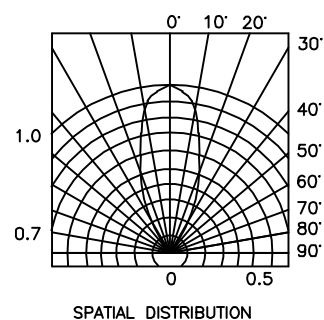
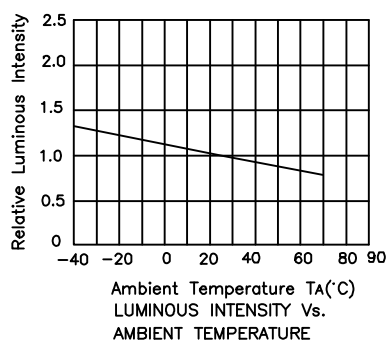
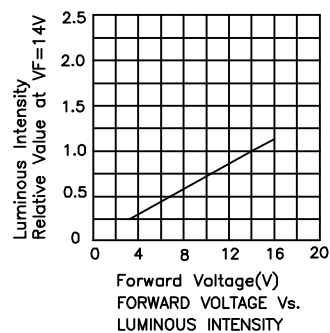
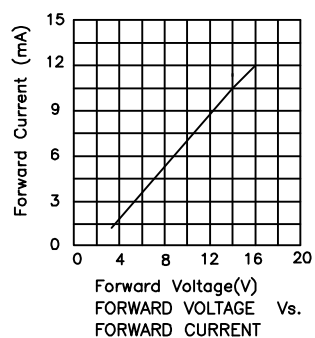
1. 2mm below package base.

2. 5mm below package base.



Green

L-7104GD-14V



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: $\pm 1\text{nm}$
2. Luminous Intensity: $\pm 15\%$

Note: Accuracy may depend on the sorting parameters.