

PRELIMINARY SPEC

L-1154MGC

MEGA GREEN

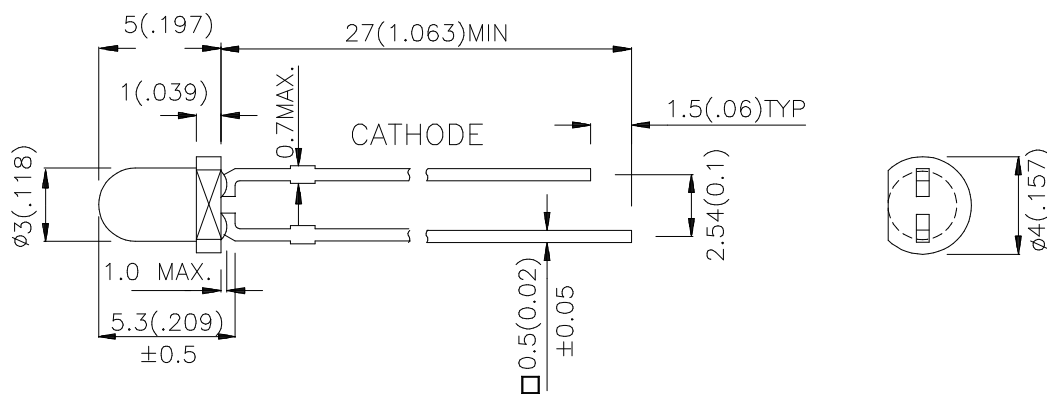
### Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.

### Description

The Mega Green source color devices are made with DH InGaAlP on GaAs substrate 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 package.
4. Specifications are subject to change without notice.

## Selection Guide

| Part No.  | Dice                 | Lens Type   | Iv (mcd)<br>@ 20 mA |      | Viewing<br>Angle |
|-----------|----------------------|-------------|---------------------|------|------------------|
|           |                      |             | Min.                | Typ. | 2θ1/2            |
| L-1154MGC | MEGA GREEN (InGaAlP) | WATER CLEAR | 180                 | 450  | 50°              |

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

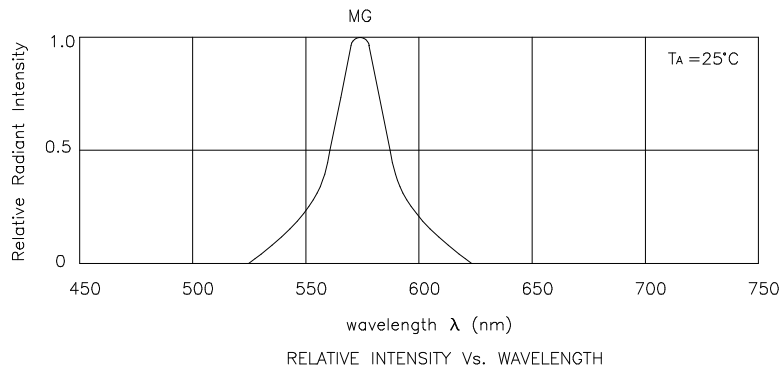
| Symbol            | Parameter                | Device     | Typ. | Max. | Units | Test Conditions           |
|-------------------|--------------------------|------------|------|------|-------|---------------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Mega Green | 574  |      | nm    | I <sub>F</sub> =20mA      |
| λ <sub>D</sub>    | Dominate Wavelength      | Mega Green | 568  |      | nm    | I <sub>F</sub> =20mA      |
| Δλ 1/2            | Spectral Line Half-width | Mega Green | 26   |      | nm    | I <sub>F</sub> =20mA      |
| C                 | Capacitance              | Mega Green | 20   |      | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub>    | Forward Voltage          | Mega Green | 2.1  | 2.5  | V     | I <sub>F</sub> =20mA      |
| I <sub>R</sub>    | Reverse Current          | Mega Green |      | 10   | μA    | V <sub>R</sub> = 5V       |

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

| Parameter                      | Blue                | Units |
|--------------------------------|---------------------|-------|
| Power dissipation              | 120                 | mW    |
| DC Forward Current             | 30                  | mA    |
| Peak Forward Current [1]       | 160                 | mA    |
| Reverse Voltage                | 5                   | V     |
| Operating/ Storage Temperature | -40°C To +85°C      |       |
| Lead Solder Temperature [2]    | 260°C For 5 Seconds |       |

Notes:

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



## Mega Green

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