

L-53YD-12V

YELLOW

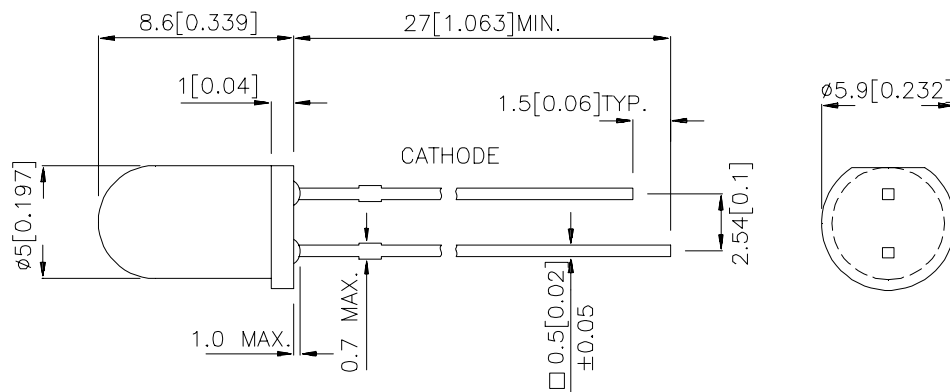
### Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- 12V INTERNAL RESISTOR.

### Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow 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>V=12V |      | Viewing Angle |
|------------|--------------------|-----------------|-------------------|------|---------------|
|            |                    |                 | Min.              | Typ. | θ1/2          |
| L-53YD-12V | YELLOW (GaAsP/GaP) | YELLOW DIFFUSED | 5                 | 20   | 60°           |

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

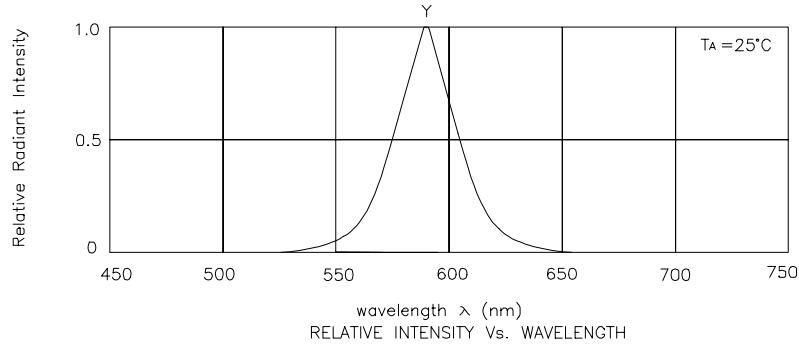
| Symbol            | Parameter                | Device | Typ. | Max. | Units | Test Conditions     |
|-------------------|--------------------------|--------|------|------|-------|---------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Yellow | 590  |      | nm    | V <sub>F</sub> =12V |
| λ <sub>D</sub>    | Dominate Wavelength      | Yellow | 588  |      | nm    | V <sub>F</sub> =12V |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Yellow | 35   |      | nm    | V <sub>F</sub> =12V |
| I <sub>F</sub>    | Forward Current          | Yellow | 8.5  | 11.5 | mA    | V <sub>F</sub> =12V |
| I <sub>R</sub>    | Reverse Current          | Yellow |      | 10   | μA    | V <sub>R</sub> = 5V |

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

| Parameter                   | Yellow              | 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 5 Seconds |       |

Note:

1. 2mm below package base.



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