

L-36BYD

YELLOW

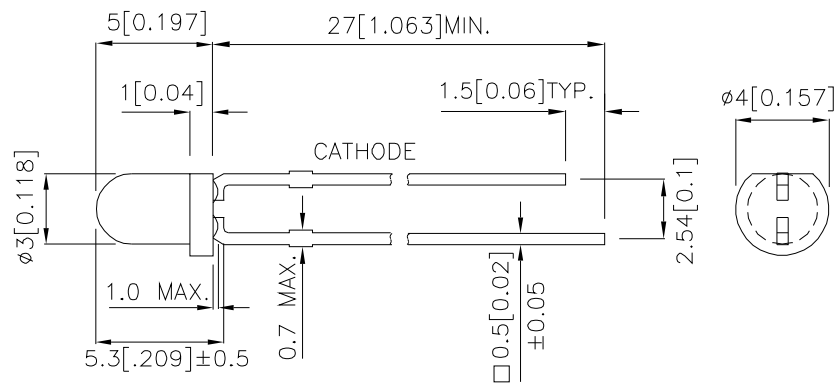
### Features

- T-1 PACKAGE WITH RECTANGULAR BASE.
- WITH BUILT-IN BLINKING IC.
- OPERATION VOLTAGE FROM 3.5V TO 14V.
- BLINKING FREQUENCY FROM 3.0Hz TO 1.5Hz.
- RoHS COMPLIANT.

### 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 leads emerge from the package.
4. Specifications are subject to change without notice.

## Selection Guide

| Part No. | Dice               | Lens Type       | Iv (mcd)<br>V=9V |      | Viewing Angle |
|----------|--------------------|-----------------|------------------|------|---------------|
|          |                    |                 | Min.             | Typ. | 2θ1/2         |
| L-36BYD  | YELLOW (GaAsP/GaP) | YELLOW DIFFUSED | 5                | 10   | 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 TA=25°C

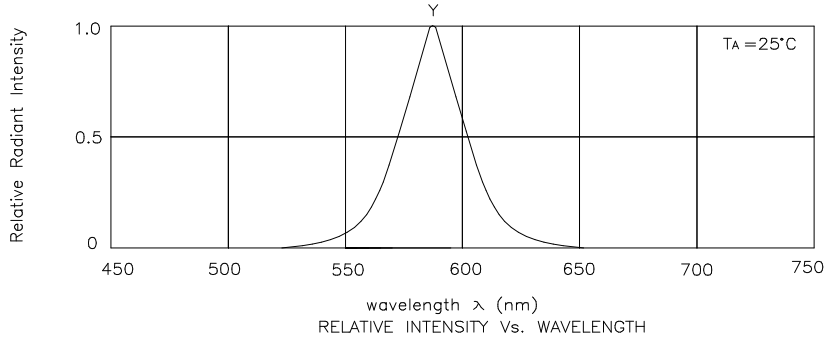
| Symbol            | Parameter                | Device | Min. | Typ. | Max. | Units | Test Conditions                                    |
|-------------------|--------------------------|--------|------|------|------|-------|--|
| λ <sub>peak</sub> | Peak Wavelength          | Yellow |      | 590  |      | nm    |  |
| λ <sub>D</sub>    | Dominant Wavelength      | Yellow |      | 588  |      | nm    |  |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Yellow |      | 35   |      | nm    |  |
| I <sub>F</sub>    | Forward Current          | Yellow | 8    | 22   |      | mA    | Min:V <sub>F</sub> =3.5V<br>Typ:V <sub>F</sub> =5V |
| I <sub>SON</sub>  | Supply Current           | Yellow |      | 8    |      | mA    | V <sub>F</sub> = 3.5V                              |
| I <sub>SON</sub>  | Supply Current           | Yellow |      | 44   |      | mA    | V <sub>F</sub> = 14V                               |
| f                 | Blink Frequency          | Yellow | 1.5  |      | 3    | Hz    | V <sub>F</sub> = 3.5V~14V                          |

## Absolute Maximum Ratings at TA=25°C

| Parameter                   | Yellow              | Units |
|-----------------------------|---------------------|-------|
| Power dissipation           | 310                 | mW    |
| Forward Voltage             | 14                  | V     |
| Reverse Voltage             | 0.5                 | 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.



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