

WP1154YD

YELLOW

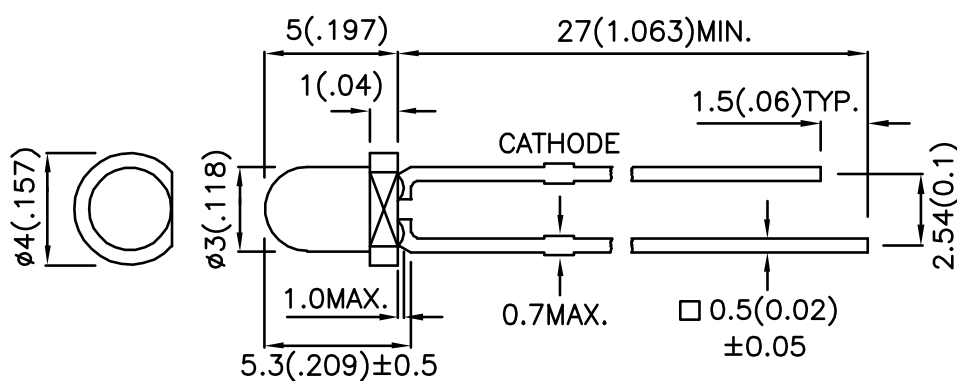
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 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) @ 10 mA | | Viewing Angle |
|----------|--------------------|-----------------|---------------------|------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| WP1154YD | YELLOW (GaAsP/GaP) | YELLOW DIFFUSED | 5 | 15 | 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

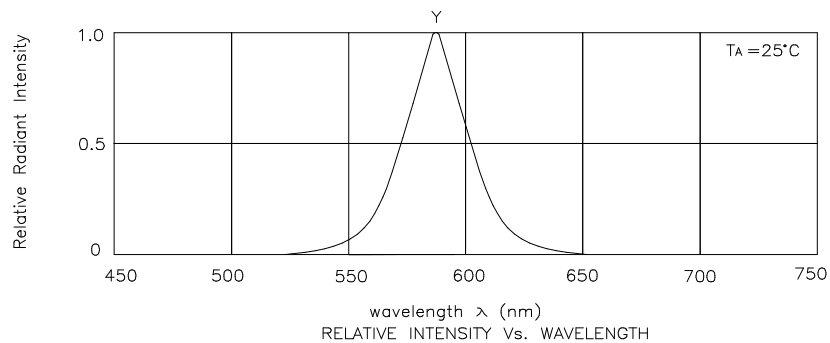
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|--------|--------------------------|--------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Yellow | 590 | | nm | IF=20mA |
| λD | Dominant Wavelength | Yellow | 588 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Yellow | 35 | | nm | IF=20mA |
| C | Capacitance | Yellow | 20 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | Yellow | 2.1 | 2.5 | V | IF=20mA |
| IR | Reverse Current | Yellow | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at TA=25°C

| Parameter | Yellow | Units |
|---------------------------------|---------------------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 140 | mA |
| Reverse Voltage | 5 | V |
| Operating / Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | |

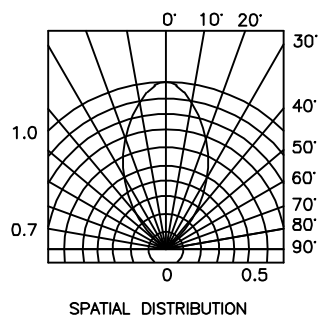
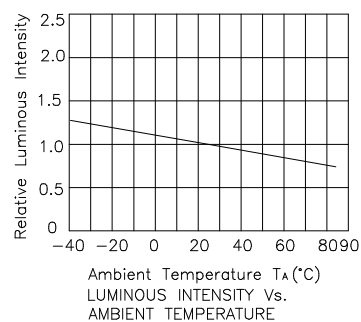
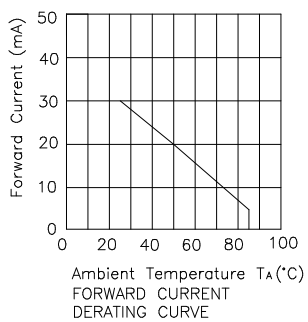
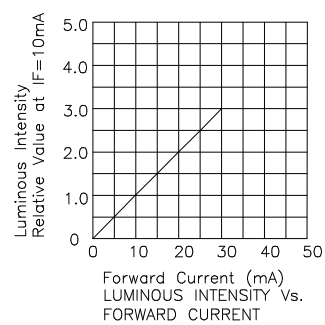
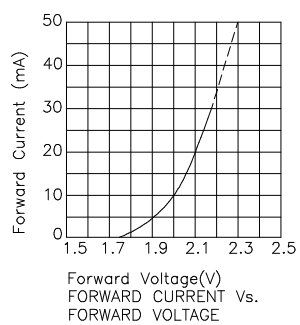
Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.
- 5mm below package base.



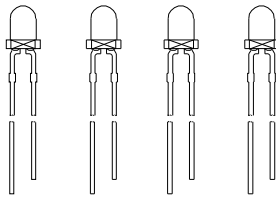
Yellow

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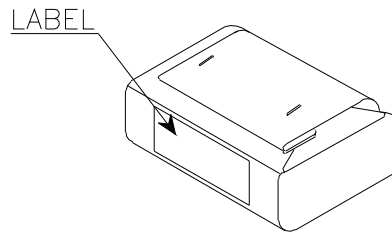


PACKING & LABEL SPECIFICATIONS

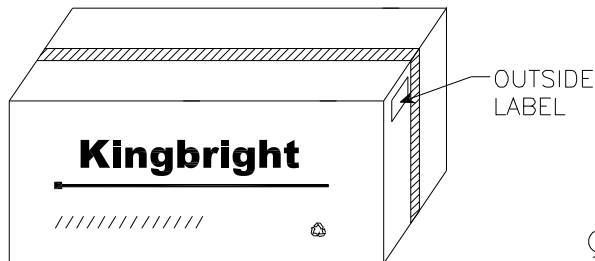
WP1154YD



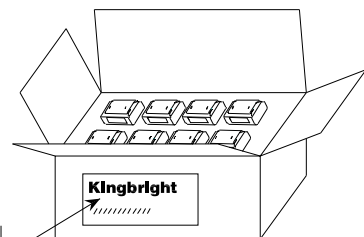
P/N: WP1154YD




1,000PCS / BAG



56K / 9# BOX



28K / 5# BOX

| | |
|--|---|
| Kingbright | |
| Q.C. | <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> QC xx.xx.2005 PASSED </div> |
| TYPE NO : WP1154YD | |
| QUANTITY : 1,000 pcs | |
| S/N : XXXX | CODE: XXX |
| LOT NO  | |
| RoHS Compliant | |

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.