

WP1034YDT

YELLOW

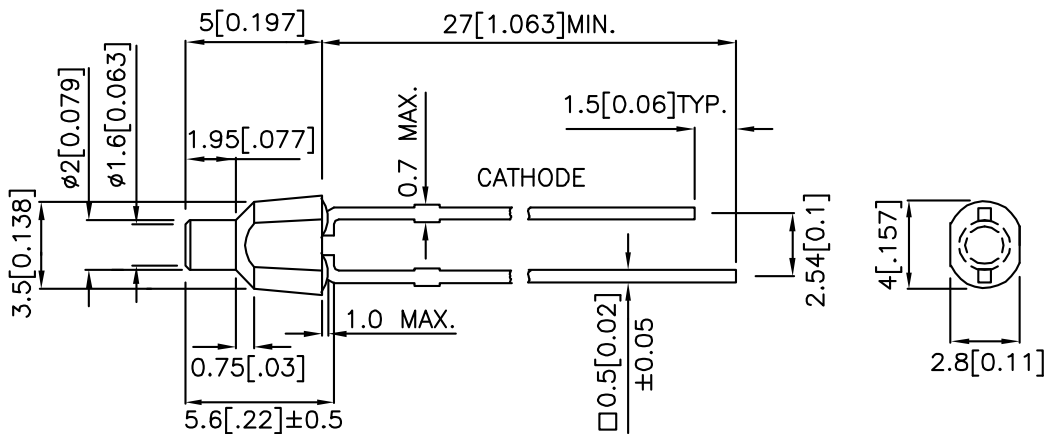
Features

- MOUNTS FLUSH WITH PANEL.
- LOW POWER CONSUMPTION.
- LONG LIFE - SOLID STATE RELIABILITY.
- 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 ± 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) @ 10mA | | Viewing Angle |
|-----------|--------------------|-----------------|--------------------|------|------------------|
| | | | Min. | Typ. | θ1/2 |
| WP1034YDT | YELLOW (GaAsP/GaP) | YELLOW DIFFUSED | 1.8 | 5 | 70° |

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

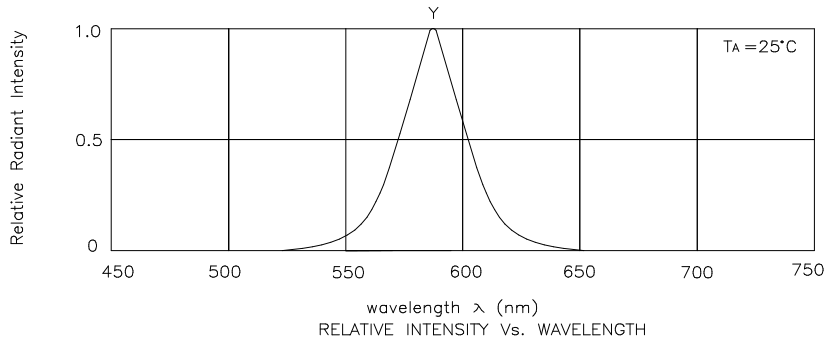
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|--------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Yellow | 590 | | nm | IF=20mA |
| λ_D | Dominant Wavelength | Yellow | 588 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | 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 | |

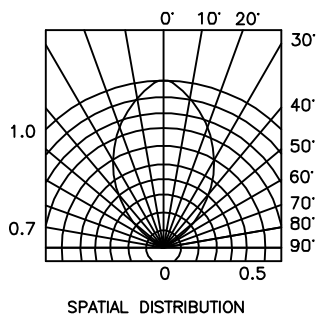
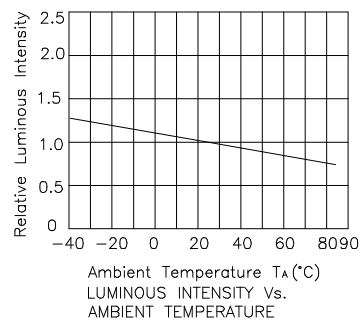
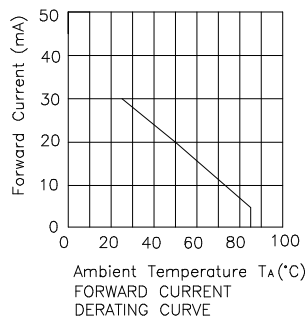
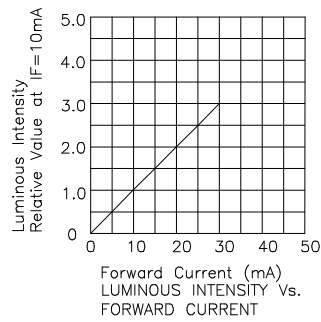
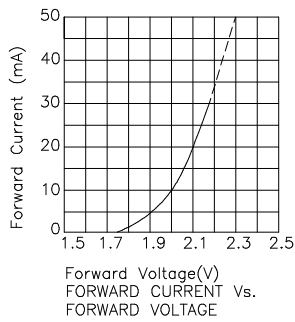
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



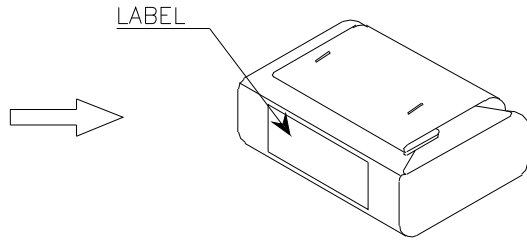
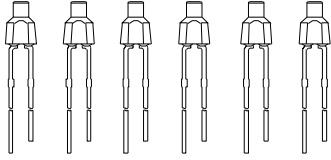
Yellow

WP1034YDT

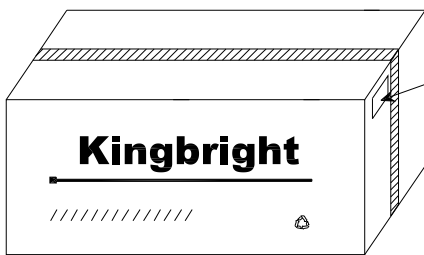


PACKING & LABEL SPECIFICATIONS

WP1034YDT

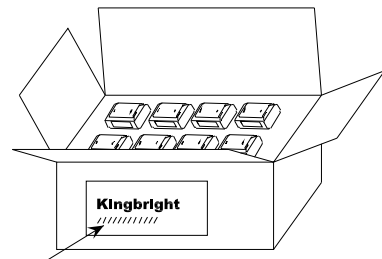


1,000PCS/BAG




56,000 PCS / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

28,000 PCS/ 5# BOX

| | |
|---|----------------------------|
| Kingbright | |
| Q.C. | OC XX.XX.XXXX PASSED |
| TYPE NO : WP1034XXX | |
| QUANTITY : 1,000 pcs | |
| S/N : XXX | CODE: XXX |
| LOT NO:  | |

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.