

# Kingbright

## T-1 (3mm) BI-LEVEL LED INDICATOR

Part Number: WP934MD/2GD

Green

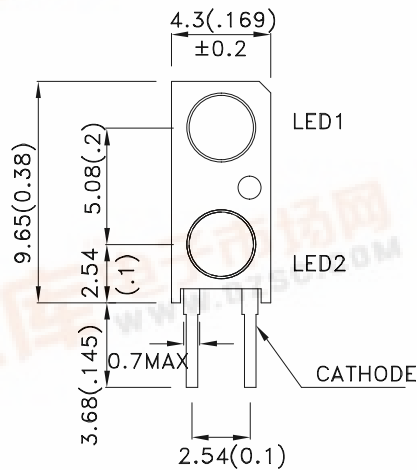
### Features

- PRE-TRIMMED LEADS FOR PC MOUNTING.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

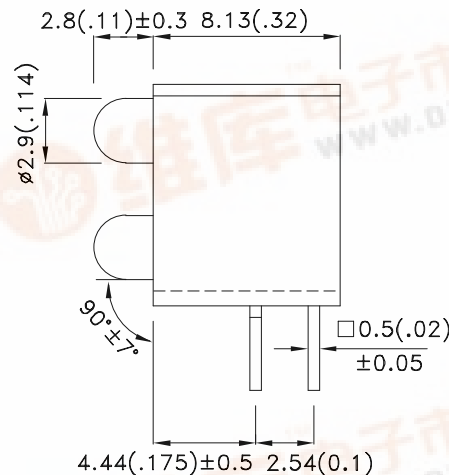
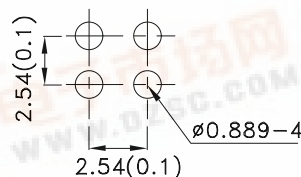
### Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

### Package Dimensions



### RECOMMENDED PCB LAYOUT



### 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) [2]<br>@ 10mA |      | Viewing<br>Angle [1] |
|-------------|-------------|----------------|------------------------|------|----------------------|
|             |             |                | Min.                   | Typ. | 2θ1/2                |
| WP934MD/2GD | Green (GaP) | GREEN DIFFUSED | 8                      | 20   | 40°                  |

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

## Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter                | Device | Typ. | Max. | Units | Test Conditions |
|--------|--------------------------|--------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Green  | 565  |      | nm    | IF=20mA         |
| λD [1] | Dominant Wavelength      | Green  | 568  |      | nm    | IF=20mA         |
| Δλ1/2  | Spectral Line Half-width | Green  | 30   |      | nm    | IF=20mA         |
| C      | Capacitance              | Green  | 15   |      | pF    | VF=0V;f=1MHz    |
| VF [2] | Forward Voltage          | Green  | 2.2  | 2.5  | V     | IF=20mA         |
| IR     | Reverse Current          | Green  |      | 10   | uA    | VR = 5V         |

Notes:

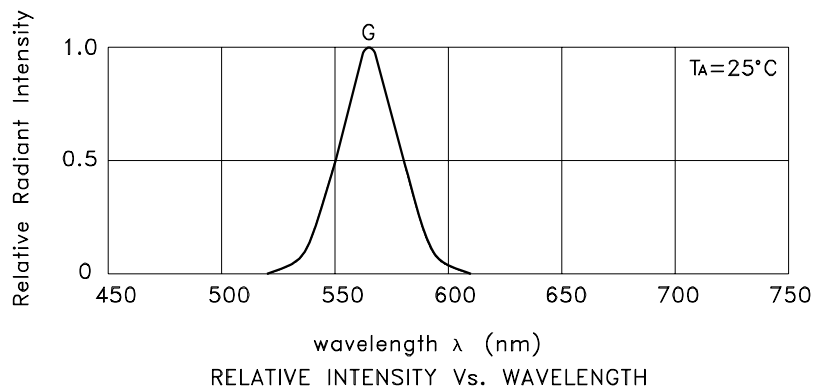
- 1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

| Parameter                     | Green               | Units |
|-------------------------------|---------------------|-------|
| Power dissipation             | 62.5                | mW    |
| DC Forward Current            | 25                  | 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 |       |

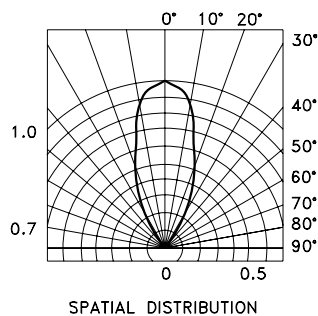
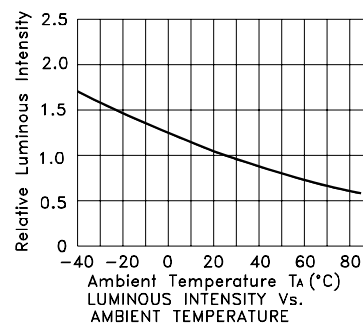
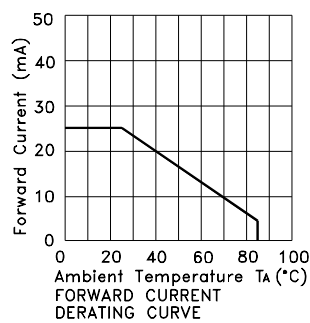
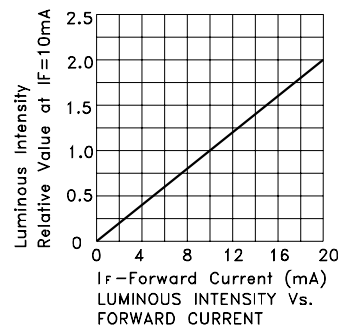
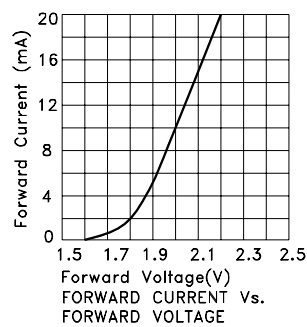
Notes:

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



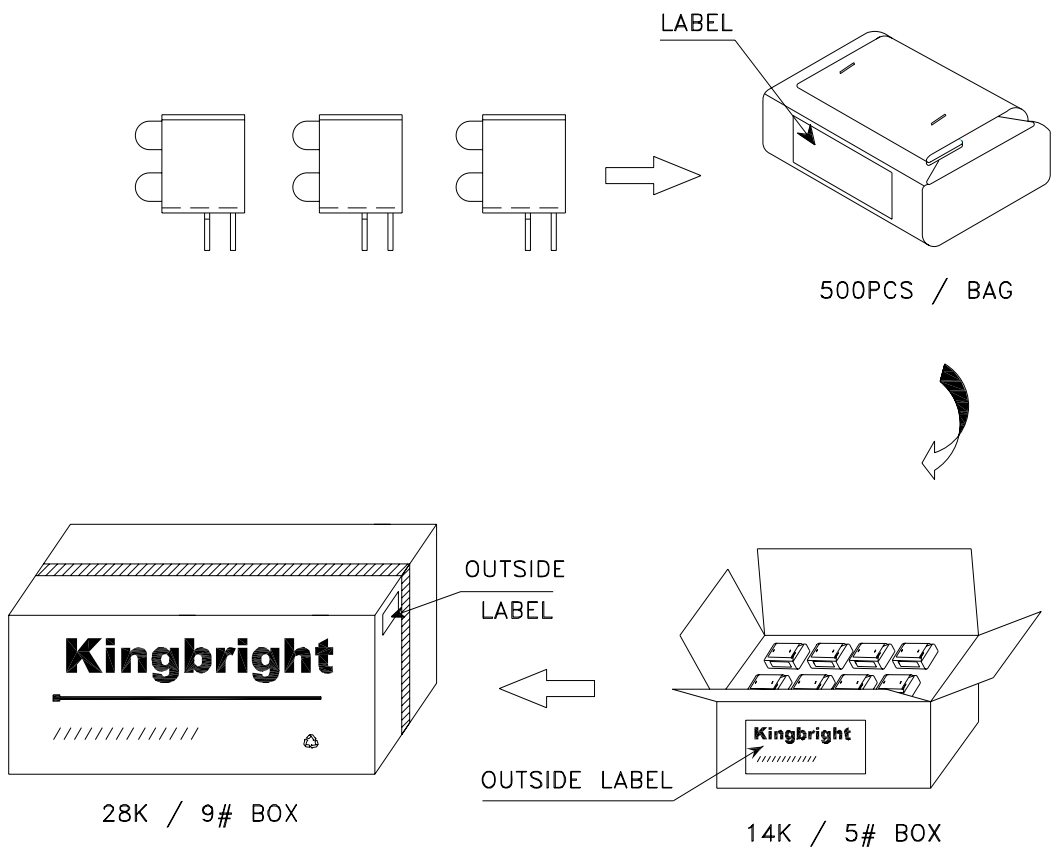
Green

WP934MD/2GD



PACKING & LABEL SPECIFICATIONS

WP934MD/2GD



|                                                                                                            |          |
|------------------------------------------------------------------------------------------------------------|----------|
| <b>Kingbright</b>                                                                                          |          |
| Q.C.                                                                                                       |          |
| TYPE NO : WP934MDxxx                                                                                       |          |
| QUANTITY : 500 pcs                                                                                         |          |
| S/N : XX                                                                                                   | CODE: XX |
| LOT NO : <br>xxxxxxxxxx |          |
| RoHS Compliant                                                                                             |          |