

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

Part Number: WP934SA/3YD Yellow

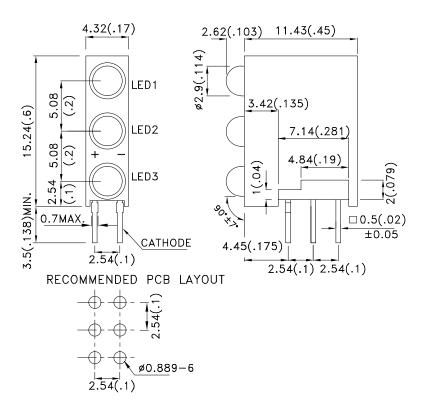
### **Features**

- 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 Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

## **Package Dimensions**



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
   Specifications are subject to change without notice.





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### **Selection Guide**

| Part No.    | Dice               | Lens Type       | lv (mcd) [2]<br>@ 10mA |      | Viewing<br>Angle [1] |
|-------------|--------------------|-----------------|------------------------|------|----------------------|
|             |                    | ,,              | Min.                   | Тур. | 201/2                |
| WP934SA/3YD | Yellow (GaAsP/GaP) | YELLOW DIFFUSED | 5                      | 15   | 40°                  |

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

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

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

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

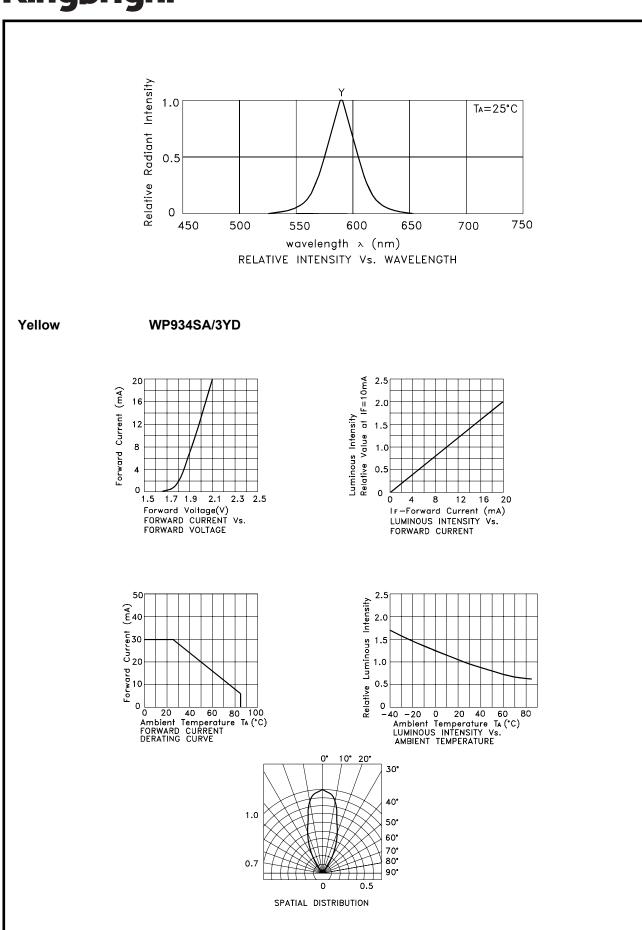
## Absolute Maximum Ratings at TA=25°C

| Parameter                     | Yellow              | Units |  |
|-------------------------------|---------------------|-------|--|
| Power dissipation             | 75                  | 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 |       |  |

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

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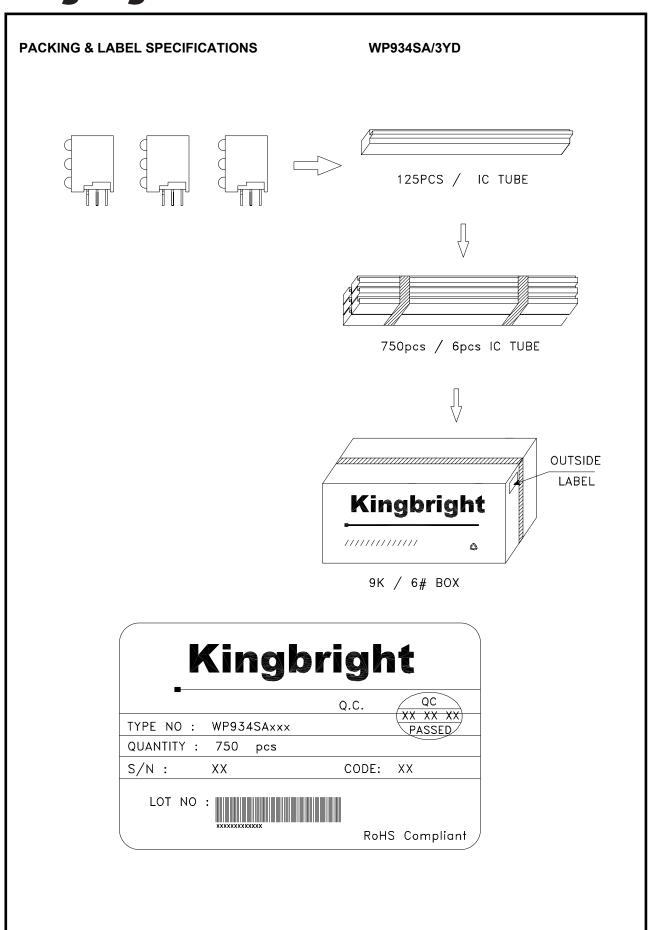
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