

WP914AT

AMBER

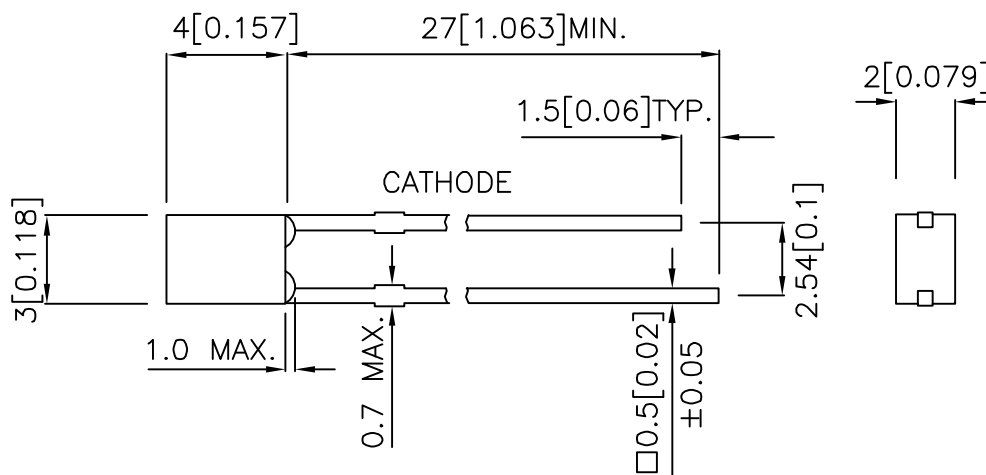
### Features

- LOW POWER CONSUMPTION.
- ULTRA BRIGHTNESS IS AVAILABLE.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- RoHS COMPLIANT.

### Description

The Amber 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>@ 10 mA |      | Viewing<br>Angle |
|----------|-------------------|-------------------|---------------------|------|------------------|
|          |                   |                   | Min.                | Typ. |                  |
| WP914AT  | AMBER (GaAsP/GaP) | AMBER TRANSPARENT | 1.8                 | 7    | 90°              |

Note:

1.  $\theta_{1/2}$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

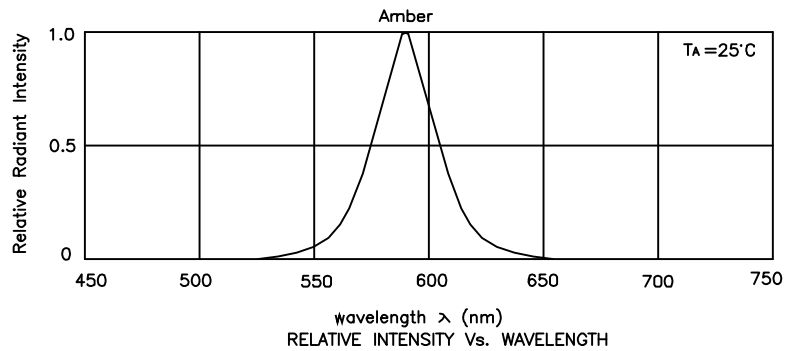
| Symbol                | Parameter                | Device | Typ. | Max. | Units | Test Conditions            |
|-----------------------|--------------------------|--------|------|------|-------|----------------------------|
| $\lambda_{peak}$      | Peak Wavelength          | Amber  | 590  |      | nm    | I <sub>F</sub> =20mA       |
| $\lambda_D$           | Dominant Wavelength      | Amber  | 588  |      | nm    | I <sub>F</sub> =20mA       |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Amber  | 35   |      | nm    | I <sub>F</sub> =20mA       |
| C                     | Capacitance              | Amber  | 20   |      | pF    | V <sub>F</sub> =0V; f=1MHz |
| V <sub>F</sub>        | Forward Voltage          | Amber  | 2.1  | 2.5  | V     | I <sub>F</sub> =20mA       |
| I <sub>R</sub>        | Reverse Current          | Amber  |      | 10   | uA    | V <sub>R</sub> = 5V        |

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

| Parameter                       | Amber               | 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 |       |

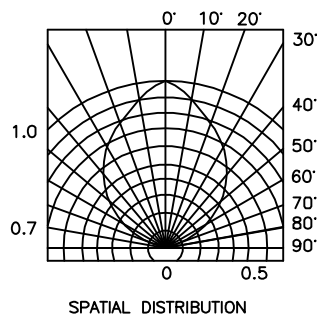
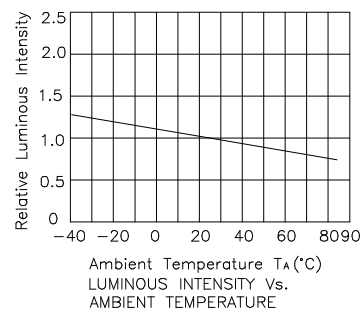
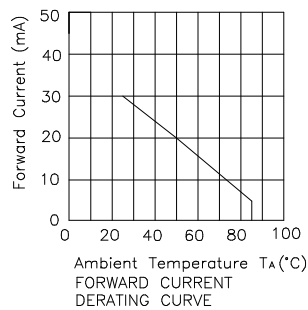
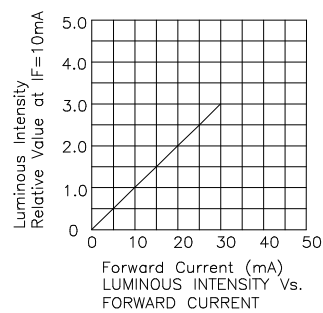
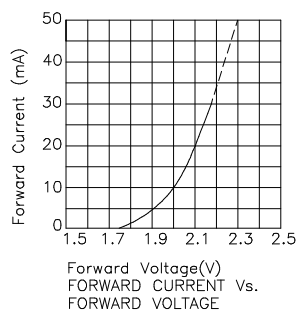
Notes:

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



Amber

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Remarks:

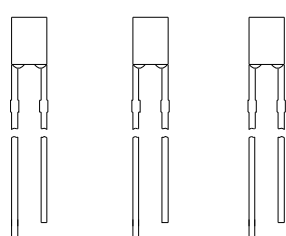
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength:  $\pm 1\text{nm}$
2. Luminous Intensity:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

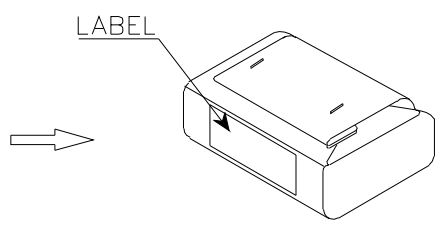
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

WP914AT



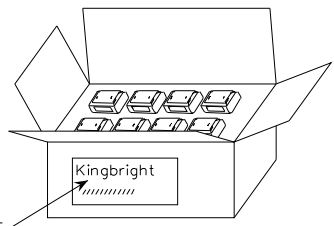
P/N: WP914XXX



1,000PCS / BAG



56K / 9# BOX



28K / 5# BOX

|                                                                                              |          |
|----------------------------------------------------------------------------------------------|----------|
| <b>Kingbright</b>                                                                            |          |
| Q.C.                                                                                         |          |
| TYPE NO : WP914XXX                                                                           |          |
| QUANTITY : 1,000 pcs                                                                         |          |
| S/N : XXX                                                                                    | CODE: XX |
| LOT NO :  |          |
| RoHS Compliant                                                                               |          |