

WP914AT

AMBER

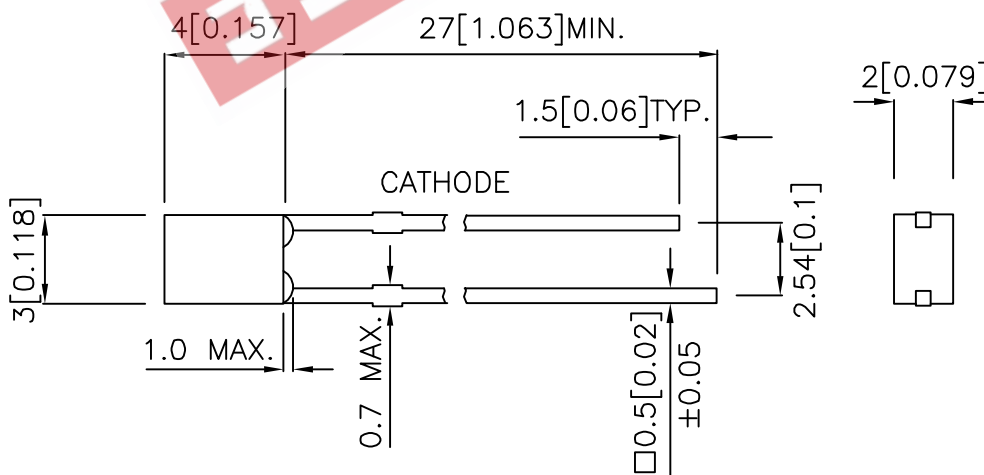
Features

- 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 ± 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. | |
| WP914AT | AMBER (GaAsP/GaP) | AMBER TRANSPARENT | 1.8 | 7 | 2 θ 1/2 90° |

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

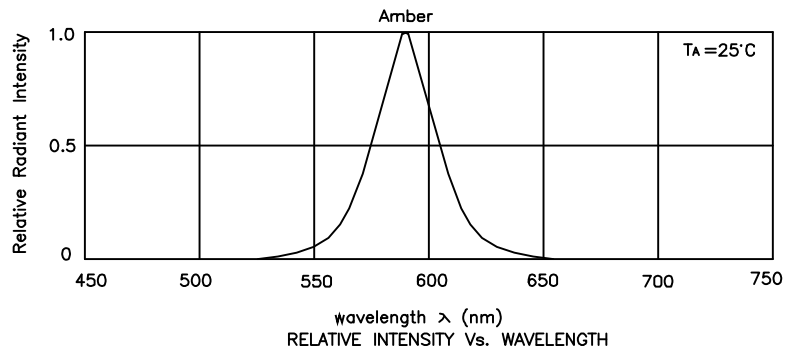
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|--------|------|------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | Amber | 590 | | nm | I _F =20mA |
| λ _D | Dominant Wavelength | Amber | 588 | | nm | I _F =20mA |
| Δλ _{1/2} | Spectral Line Half-width | Amber | 35 | | nm | I _F =20mA |
| C | Capacitance | Amber | 20 | | pF | V _F =0V;f=1MHz |
| V _F | Forward Voltage | Amber | 2.1 | 2.5 | V | I _F =20mA |
| I _R | Reverse Current | Amber | | 10 | uA | V _R = 5V |

Absolute Maximum Ratings at TA=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 | |

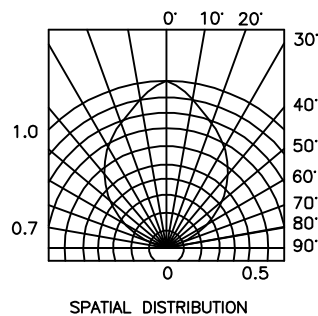
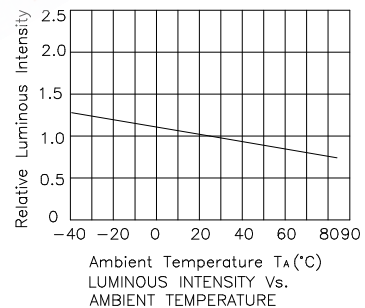
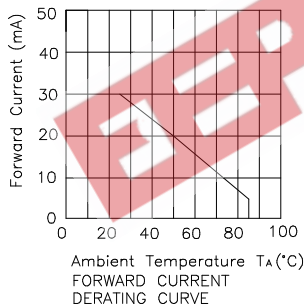
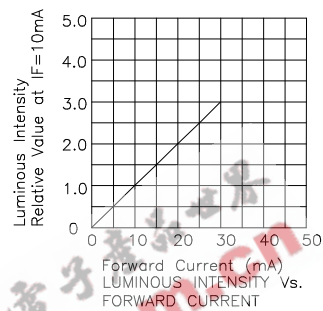
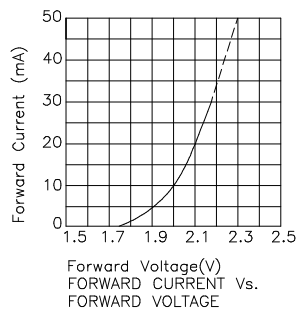
Notes:

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:

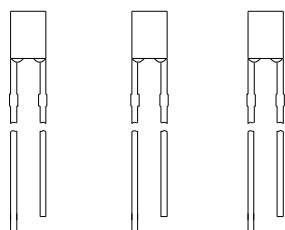
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

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

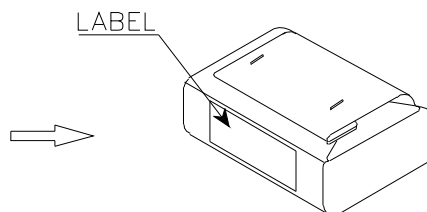
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

WP914AT



P/N: WP914XXX



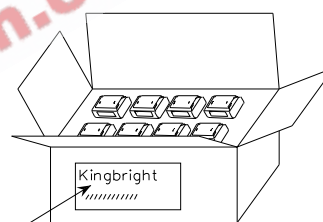
1,000PCS / BAG




56K / 9# BOX

OUTSIDE LABEL

OUTSIDE LABEL



28K / 5# BOX

| | |
|---|---|
| Kingbright | |
| Q.C. | <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> QC xxx xx. 2005 PASSED </div> |
| TYPE NO : WP914XXX | |
| QUANTITY : 1,000 pcs | |
| S/N : XXX | CODE: XX |
| LOT NO :  <small>xxxxxxxxxx</small> | |
| RoHS Compliant | |