

1.1x3.4mm RECTANGULAR SOLID LAMP

Part Number: WP1004HD

Bright Red

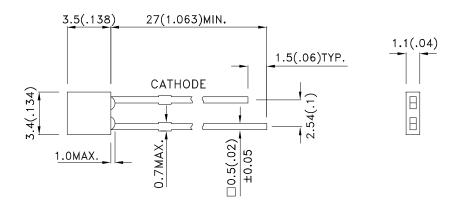
Features

- LOW POWER CONSUMPTION.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- LONG LIFE-SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

Description

The Bright Red source color devices are made with Gallium Phosphide Red 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] @ 10mA | | Viewing Angle [1] |
|----------|------------------|--------------|------------------------|------|----------------------|
| | | - | Min. | Тур. | 201/2 |
| WP1004HD | Bright Red (GaP) | RED DIFFUSED | 0.4 | 1.1 | 100° |

- 1. 01/2 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 | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|------------|------|------|-------|---------------------|
| λpeak | Peak Wavelength | Bright Red | 700 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Bright Red | 660 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Bright Red | 45 | | nm | IF=20mA |
| С | Capacitance | Bright Red | 40 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Bright Red | 2.25 | 2.5 | V | IF=20mA |
| lR | Reverse Current | Bright Red | | 10 | uA | V _R = 5V |

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

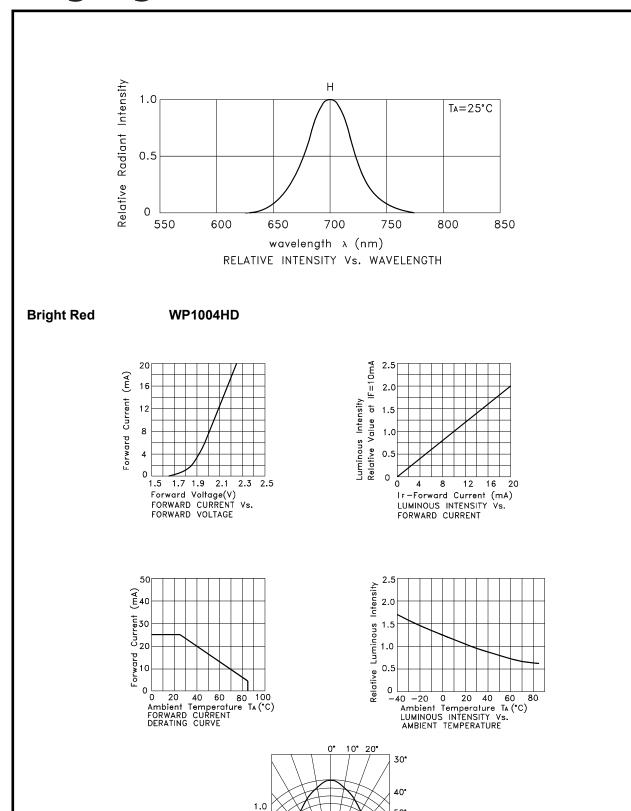
Absolute Maximum Ratings at TA=25°C

| Parameter | Bright Red | Units | | |
|-------------------------------|---------------------|---------------------|--|--|
| Power dissipation | 62.5 | mW | | |
| DC Forward Current | 25 | mA | | |
| Peak Forward Current [1] | 130 | 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 | 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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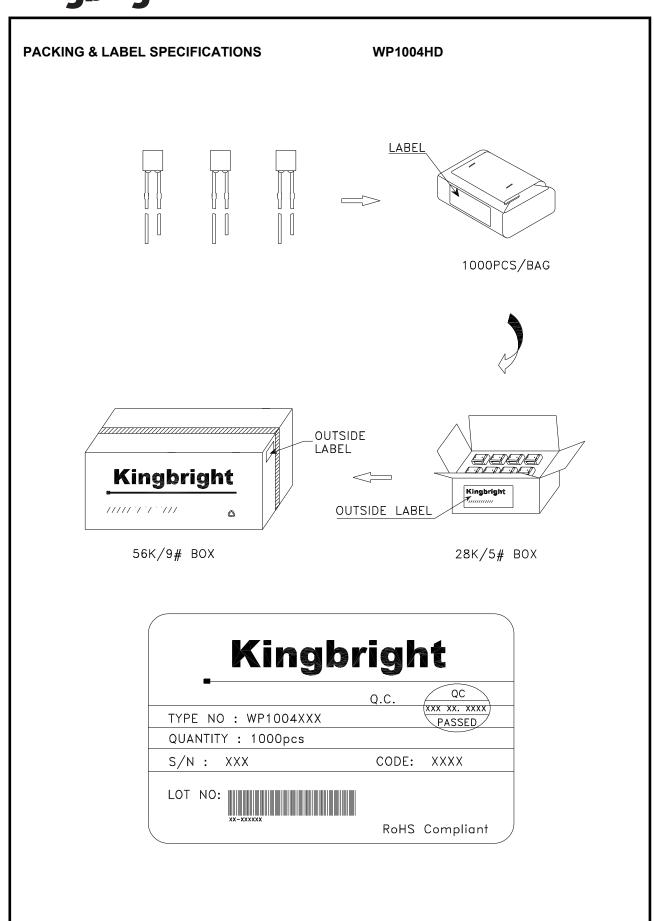
SPATIAL DISTRIBUTION

0.7

50° 60° 70° 80°

90°

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