

#### 2mm FLAT TOP LED LAMP

WP1034HDT

BRIGHT RED

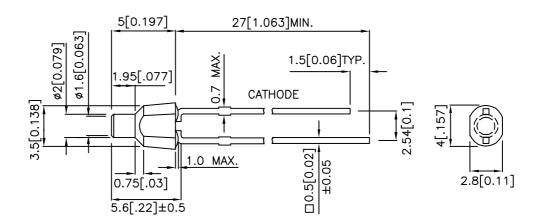
#### **Features**

- •MOUNTS FLUSH WITH PANEL.
- •LOW POWER CONSUMPTION.
- •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**



#### Notes:

- 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.

 SPEC NO: DSAF2525
 REV NO: V.1
 DATE: APR/18/2005
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 ERP:1101000333

# Kingbright

### **Selection Guide**

| Part No.  | Dice             | Lens Type    | lv (mcd)<br>@ 10mA |      | Viewing<br>Angle |
|-----------|------------------|--------------|--------------------|------|------------------|
|           |                  |              | Min.               | Тур. | 201/2            |
| WP1034HDT | BRIGHT RED (GaP) | RED DIFFUSED | 0.4                | 1    | 70°              |

#### Note:

## 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     | 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     | Forward Voltage          | Bright Red | 2.25 | 2.5  | V     | IF=20mA         |
| lR     | Reverse Current          | Bright Red |      | 10   | uA    | VR = 5V         |

## Absolute Maximum Ratings at Ta=25°C

| Parameter                                       | Bright Red     | Units |  |
|---|----------------|-------|--|
| Power dissipation                               | 120            | 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 |                |       |  |

#### Notes

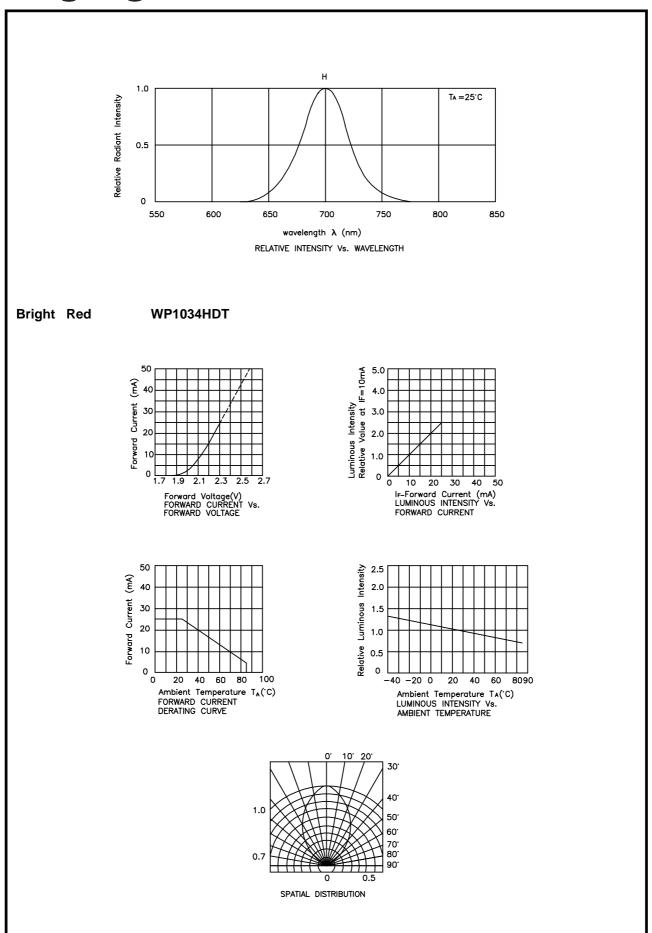
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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 $<sup>1. \</sup>theta^{1/2}$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

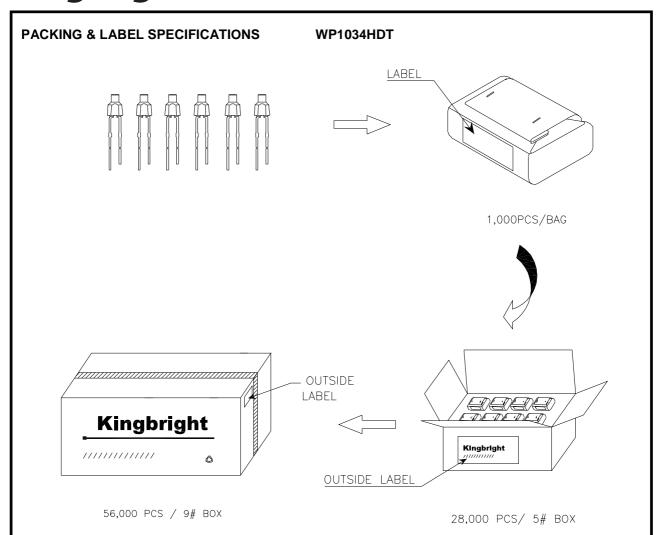
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### Remarks:

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.

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