

WP1034HDT

BRIGHT RED

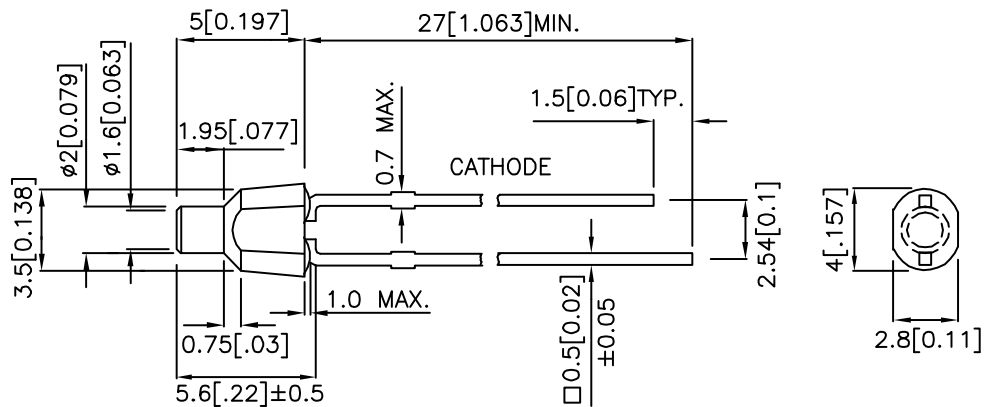
Features

- 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:

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) @ 10mA | | Viewing Angle |
|-----------|------------------|--------------|--------------------|------|------------------|
| | | | Min. | Typ. | θ1/2 |
| WP1034HDT | BRIGHT RED (GaP) | RED DIFFUSED | 0.4 | 1 | 70° |

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

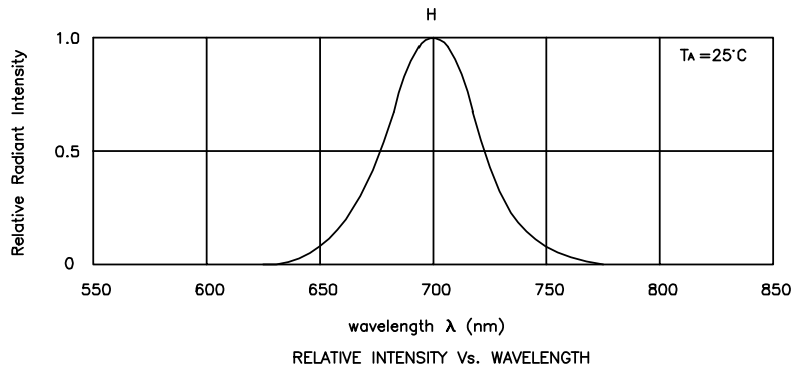
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|------------|------|------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | Bright Red | 700 | | nm | I _F =20mA |
| λ _D | Dominant Wavelength | Bright Red | 660 | | nm | I _F =20mA |
| Δλ _{1/2} | Spectral Line Half-width | Bright Red | 45 | | nm | I _F =20mA |
| C | Capacitance | Bright Red | 40 | | pF | V _F =0V;f=1MHz |
| V _F | Forward Voltage | Bright Red | 2.25 | 2.5 | V | I _F =20mA |
| I _R | Reverse Current | Bright Red | | 10 | uA | V _R = 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 | |

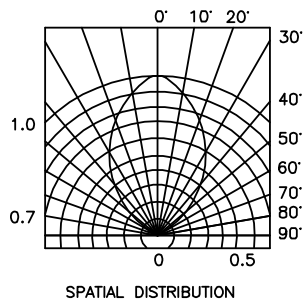
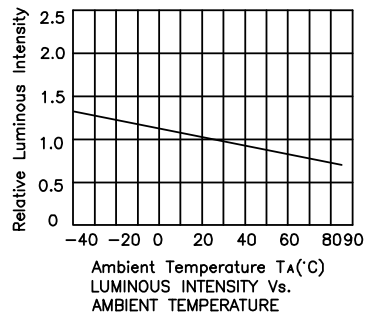
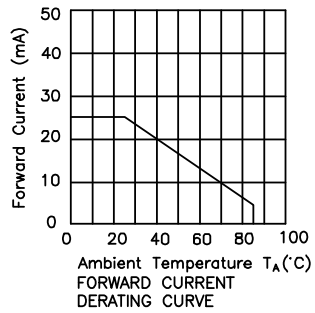
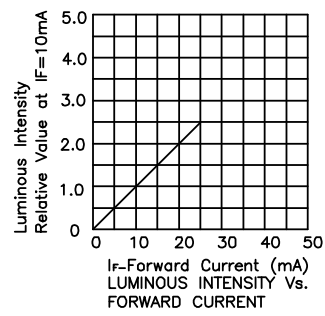
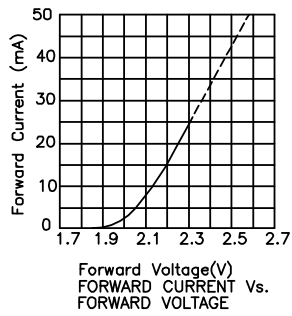
Notes:

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



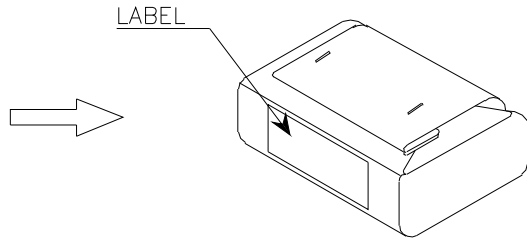
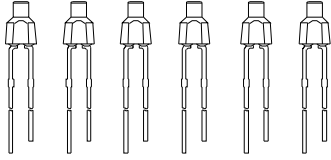
Bright Red

WP1034HDT

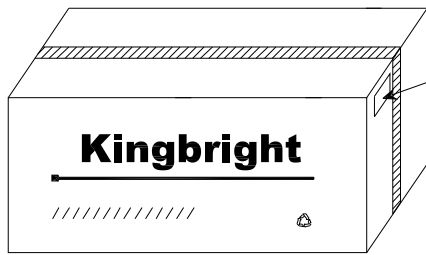


PACKING & LABEL SPECIFICATIONS

WP1034HDT

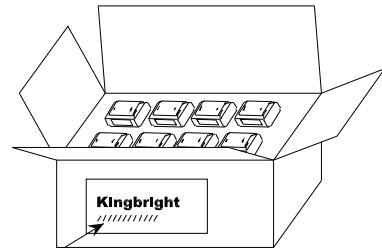


1,000PCS/BAG




56,000 PCS / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

28,000 PCS/ 5# BOX

| | |
|---|----------------------------|
| Kingbright | |
| Q.C. | OC XX.XX.XXXX PASSED |
| TYPE NO : WP1034XXX | |
| QUANTITY : 1,000 pcs | |
| S/N : XXX | CODE: XXX |
| LOT NO:  | |

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.