

1.8mm BI-LEVEL CIRCUIT BOARD INDICATOR

Part Number: WP4060VH/2ID

High Efficiency Red

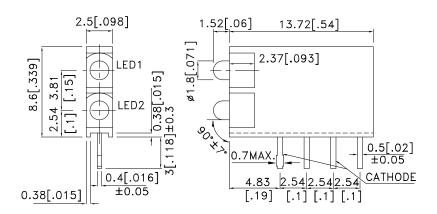
Features

- Pre-trimmed leads for pc mounting.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- UL rating: 94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

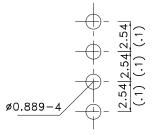
Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



RECOMMENDED PCB LAYOUT



Notes:

- 1.All dimensions are in millmeters(inches).
- $2. Tolerance is + \slashed{-0.25(+/-0.01")} unless otherwise noted. \\$
- 3.Lead spacing is measued where the leads emerge from the package.
- 4. Specifications are subject to change without notice.





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 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: S.P.Chen
 ERP: 1102001283

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Selection Guide

| Part No. | Dice | Lens Type | lv (mcd) [2] @ 10mA | | Viewing Angle [1] |
|--------------|---------------------------------|--------------|------------------------|------|----------------------|
| | | 21 | Min. | Тур. | 201/2 |
| WP4060VH/2ID | High Efficiency Red (GaAsP/GaP) | RED DIFFUSED | 8 | 15 | 70° |

- 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 | High Efficiency Red | 627 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | High Efficiency Red | 625 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | High Efficiency Red | 45 | | nm | IF=20mA |
| С | Capacitance | High Efficiency Red | 15 | | pF | V _F =0V;f=1MHz |
| VF [2] | Forward Voltage | High Efficiency Red | 2 | 2.5 | V | I=20mA |
| lr | Reverse Current | High Efficiency Red | | 10 | uA | V _R = 5V |

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

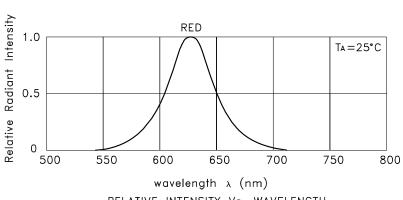
Absolute Maximum Ratings at TA=25°C

| Parameter | High Efficiency Red | Units | |
|-------------------------------|---------------------|-------|--|
| Power dissipation | 75 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 160 | 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 | | |

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

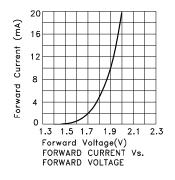
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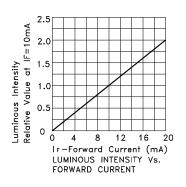
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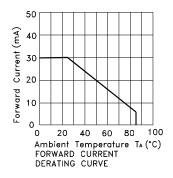


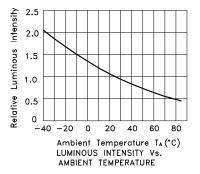
RELATIVE INTENSITY Vs. WAVELENGTH

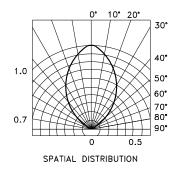
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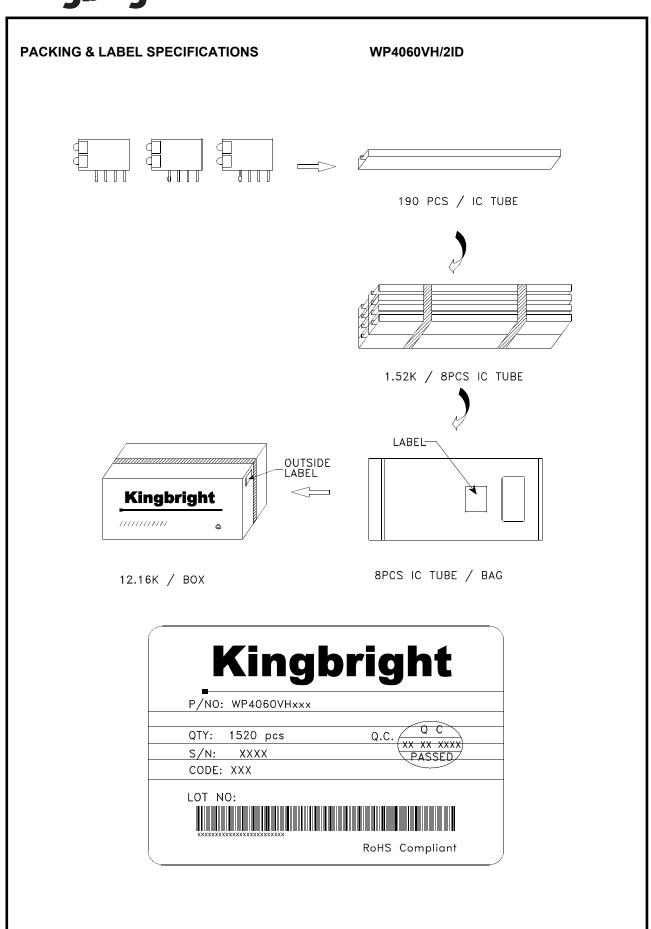






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