

P/N: WP937EB/2EGW HIGH EFFICIENCY RED GREEN

Features

- PRE-TRIMMED LEADS FOR PC MOUNTING.
- I.C. COMPATIBLE.
- 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.

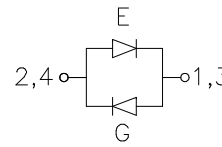
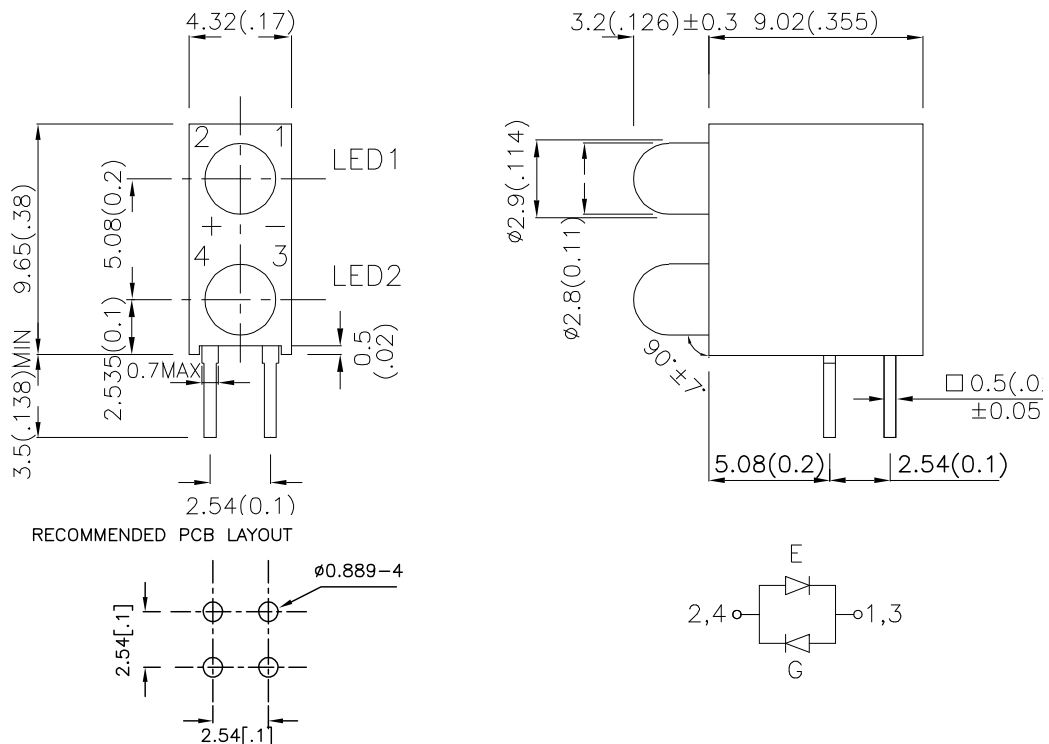
Description

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

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions

LED1,2: WP937EGW(RED/GREEN)



Notes:

1. 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.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20mA | | Viewing Angle |
|--------------|---------------------------------|----------------|--------------------|------|------------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| WP937EB/2EGW | HIGH EFFICIENCY RED (GaAsP/GaP) | WHITE DIFFUSED | 7 | 20 | 60° |
| | GREEN (GaP) | | 7 | 16 | |

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

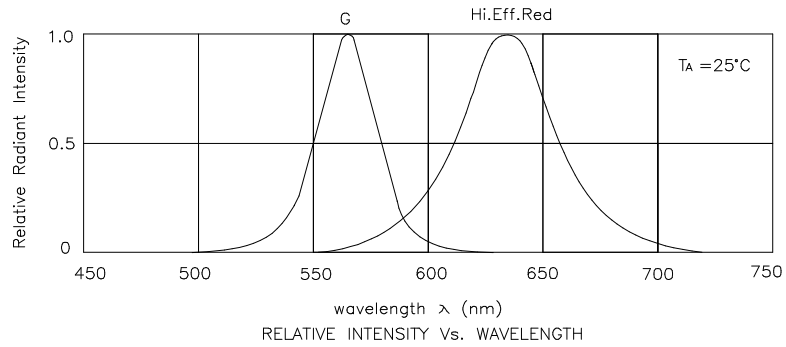
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|------------------------------|------------|------------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | High Efficiency Red Green | 627 565 | | nm | I _F =20mA |
| λ _D | Dominant Wavelength | High Efficiency Red Green | 625 568 | | nm | I _F =20mA |
| Δλ _{1/2} | Spectral Line Half-width | High Efficiency Red Green | 45 30 | | nm | I _F =20mA |
| C | Capacitance | High Efficiency Red Green | 15 15 | | pF | V _F =0V;f=1MHz |
| V _F | Forward Voltage | High Efficiency Red Green | 2.0 2.2 | 2.5 2.5 | V | I _F =20mA |

Absolute Maximum Ratings at TA=25°C

| Parameter | High Efficiency Red | Green | Units |
|-------------------------------|---------------------|-------|-------|
| Power dissipation | 75 | 62.5 | mW |
| DC Forward Current | 30 | 25 | mA |
| Peak Forward Current [1] | 160 | 140 | mA |
| 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 | | |

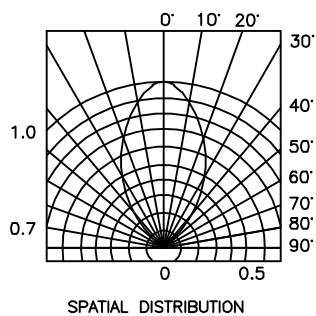
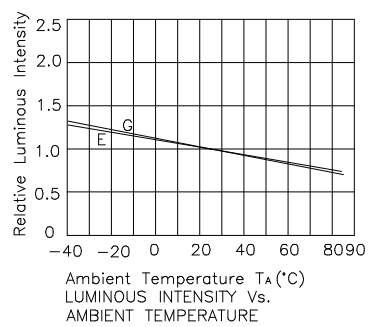
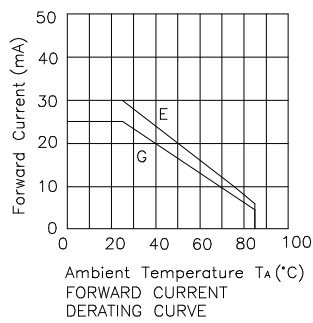
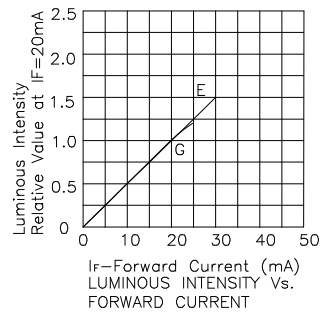
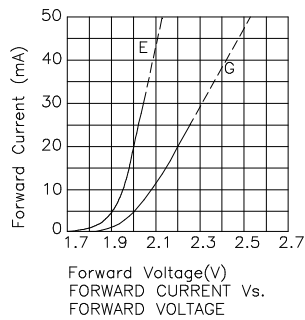
Notes:

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



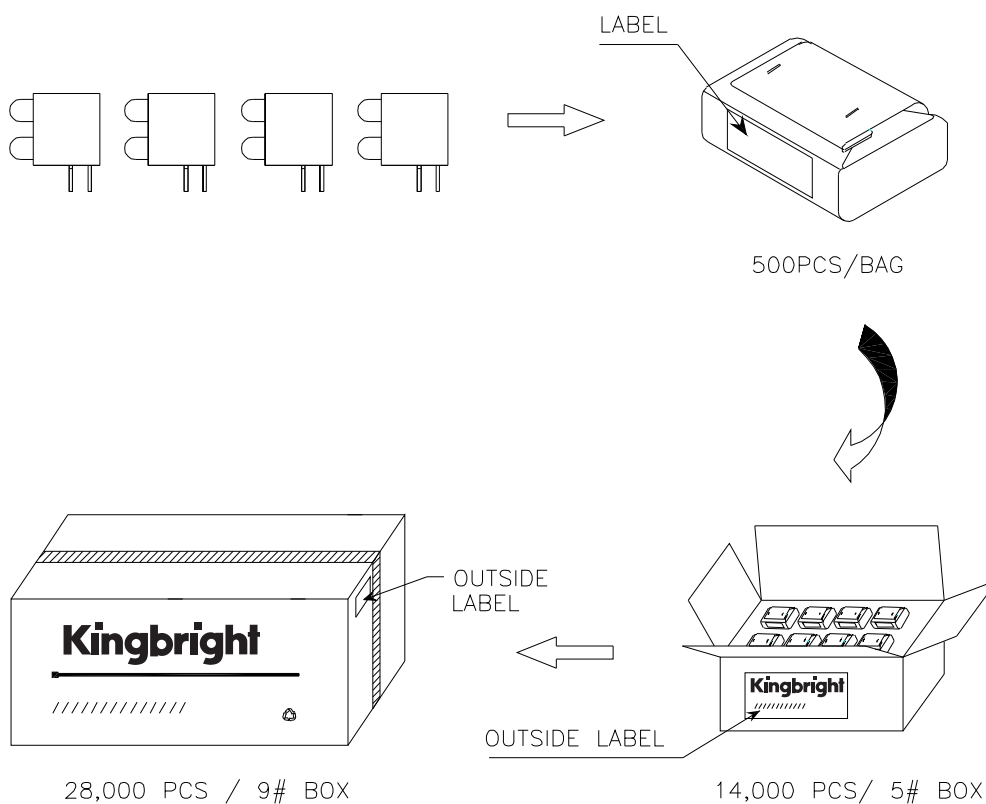
High Efficiency Red / Green


WP937EB/2EGW



PACKING & LABEL SPECIFICATIONS

WP937EB/2EGW



| | |
|--|----------------------------|
| Kingbright | |
| Q.C. | QC xxx xx xxx PASSED |
| TYPE NO : WP937EBXXX | Date |
| QUANTITY : 500 pcs | |
| S/N : xxx | CODE: XX |
| LOT NO :  | RoHS Compliant |

Remarks:

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

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

Note: Accuracy may depend on the sorting parameters.

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