

P/N: WP937SB/4YGW

YELLOW / GREEN

Features

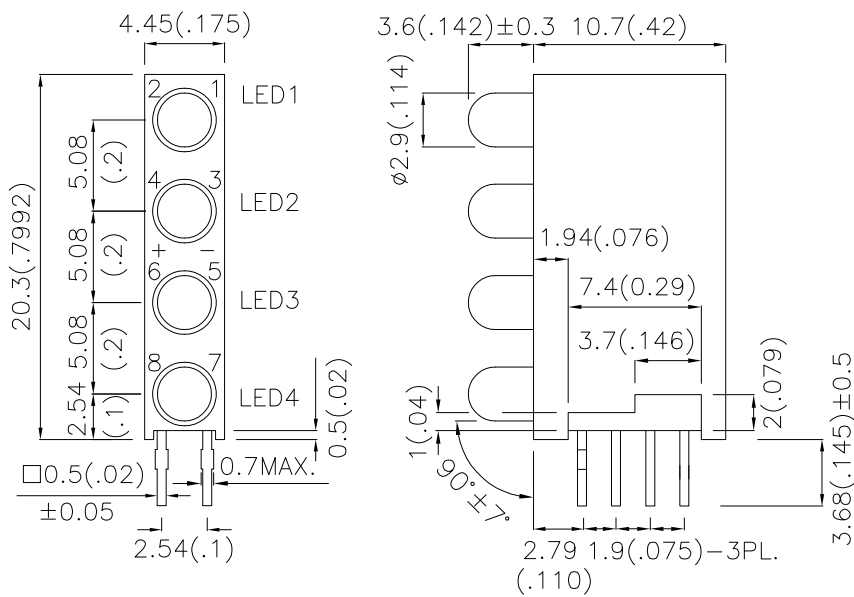
- QUAD-LEVEL DESIGN, SAVE BOARD SPACE.
- DIFFERENT COLOR COMBINATION AVAILABLE.
- BLACK CASE ENHANCES CONTRAST.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

Description

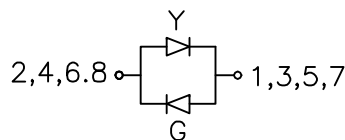
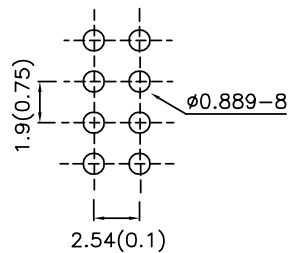
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

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

Package Dimensions



RECOMMENDED PCB LAYOUT



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) [2] @ 20mA | | Viewing Angle [1] |
|--------------|--------------------|----------------|------------------------|------|----------------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| WP937SB/4YGW | YELLOW (GaAsP/GaP) | WHITE DIFFUSED | 1.6 | 7 | 60° |
| | GREEN (GaP) | | 7 | 16 | |

Notes:

1. θ1/2 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 | Typ. | Max. | Units | Test Conditions |
|--------------------|--------------------------|-----------------|------------|------------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | Yellow Green | 590 565 | | nm | I _F =20mA |
| λ _D [1] | Dominant Wavelength | Yellow Green | 588 568 | | nm | I _F =20mA |
| Δλ _{1/2} | Spectral Line Half-width | Yellow Green | 35 30 | | nm | I _F =20mA |
| C | Capacitance | Yellow Green | 20 15 | | pF | V _F =0V;f=1MHz |
| V _F [2] | Forward Voltage | Yellow Green | 2.1 2.2 | 2.5 2.5 | V | I _F =20mA |

Notes:

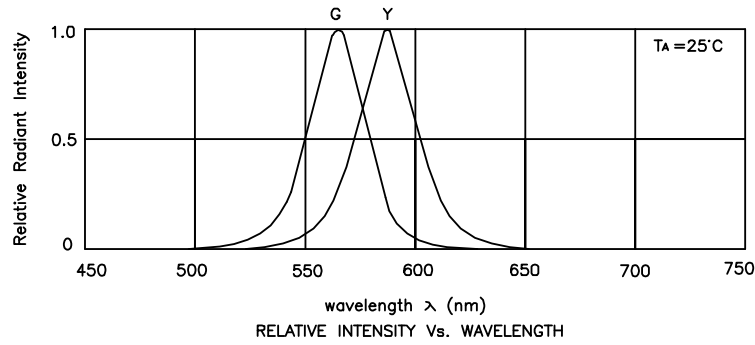
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

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

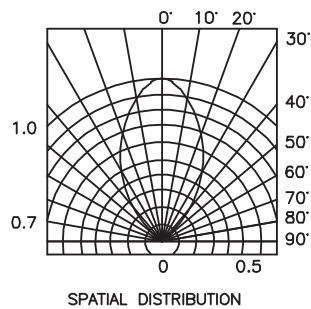
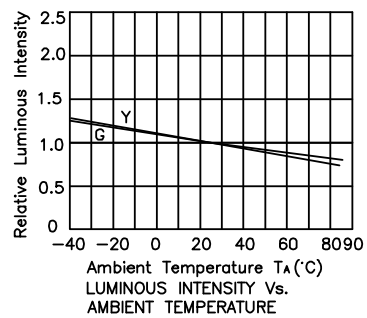
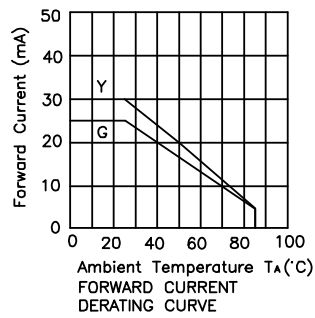
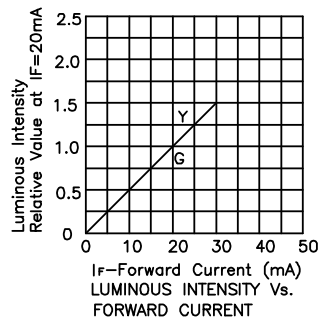
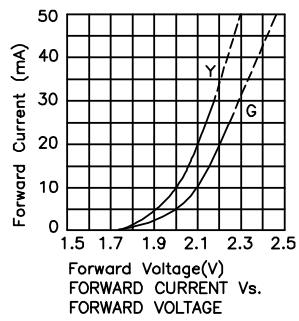
Notes:

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



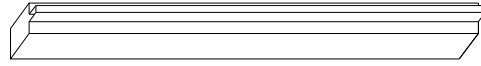
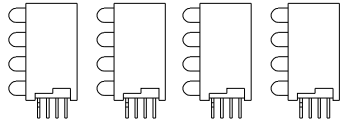
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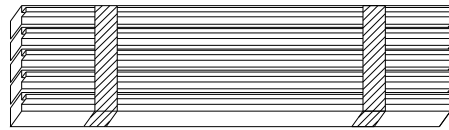
PACKING & LABEL SPECIFICATIONS

WP937SB/4YGW



600PCS / IC TUBE

MATERIAL WEIGHT: 0.0014Kg/PCS



3K/ 5pcs IC TUBE



| | |
|--|-----------------------------|
| Kingbright | |
| Q.C. | QC xxx-xx-xxxx PASSED |
| TYPE NO : WP937SB/XXX | |
| QUANTITY : 600 pcs | |
| S/N : XXXX | CODE: XX |
| LOT NO :  | |
| MADE IN CHINA | RoHS Compliant |



OUTSIDE LABEL

8.4K / 6# BOX