

P/N: WP937SB/4YGW

YELLOW / GREEN

### Features

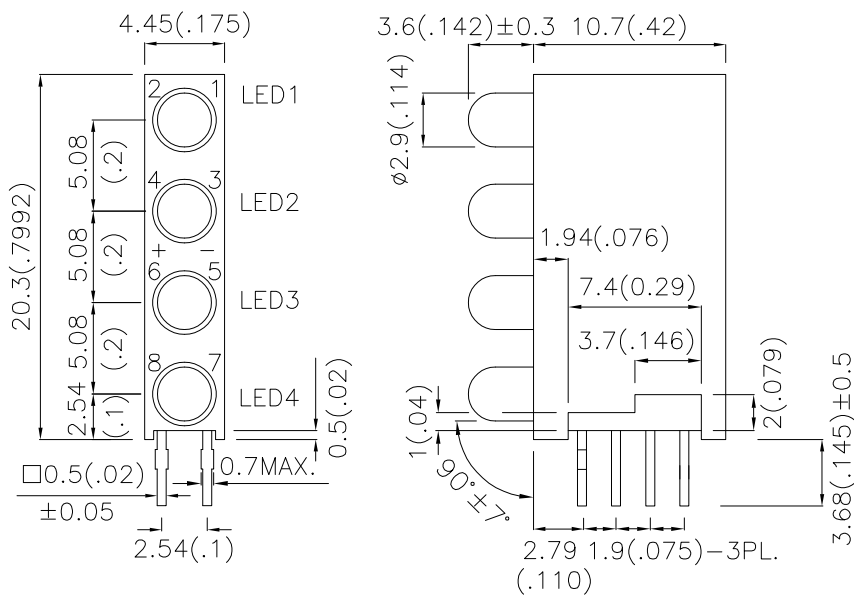
- QUAD-LEVEL DESIGN, SAVE BOARD SPACE.
- DIFFERENT COLOR COMBINATION AVAILABLE.
- BLACK CASE ENHANCES CONTRAST.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

### Description

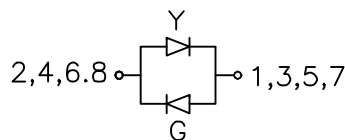
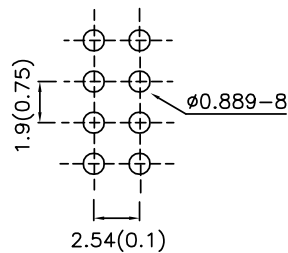
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

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 <sub>peak</sub>	Peak Wavelength	Yellow Green	590 565		nm	I <sub>F</sub> =20mA
λ <sub>D</sub> [1]	Dominant Wavelength	Yellow Green	588 568		nm	I <sub>F</sub> =20mA
Δλ <sub>1/2</sub>	Spectral Line Half-width	Yellow Green	35 30		nm	I <sub>F</sub> =20mA
C	Capacitance	Yellow Green	20 15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub> [2]	Forward Voltage	Yellow Green	2.1 2.2	2.5 2.5	V	I <sub>F</sub> =20mA

Notes:

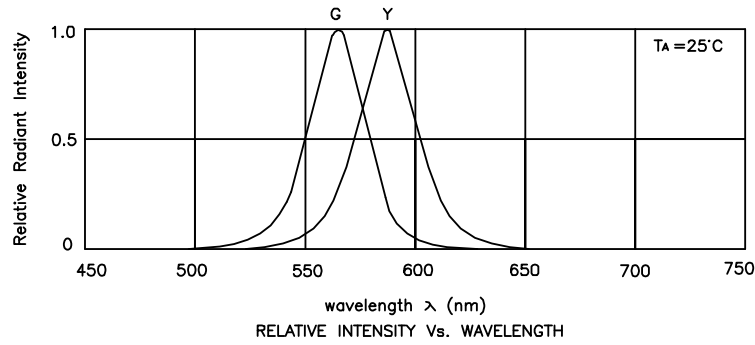
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## 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		

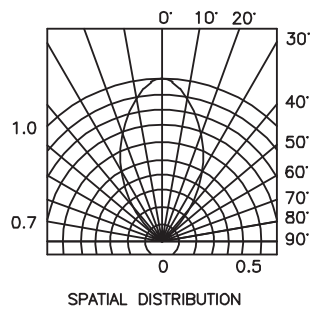
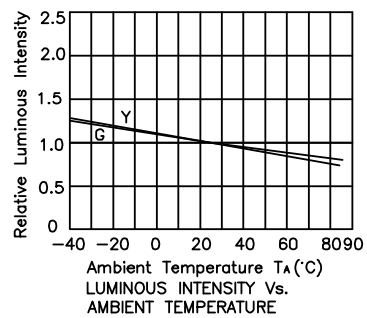
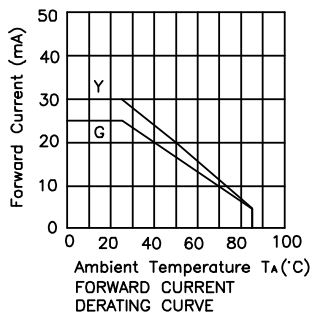
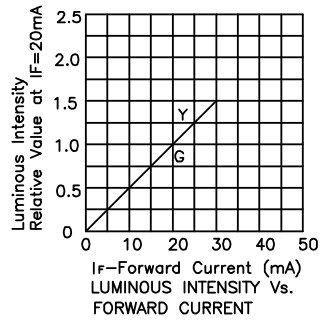
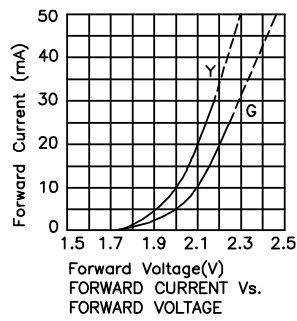
Notes:

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



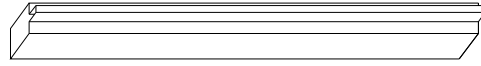
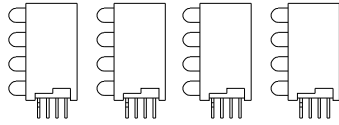
Yellow / Green

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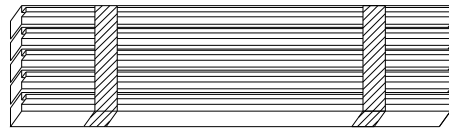
## PACKING & LABEL SPECIFICATIONS

## WP937SB/4YGW



600PCS / IC TUBE

MATERIAL WEIGHT: 0.0014Kg/PCS



3K/ 5pcs IC TUBE



<b>Kingbright</b>	
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