

Part Number: WP59BL/GYW

Green
Yellow

Features

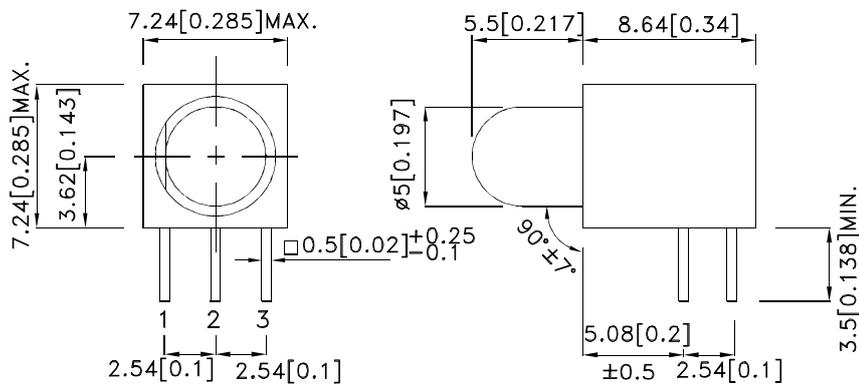
- Pre-trimmed leads for pc board mounting.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability - life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Description

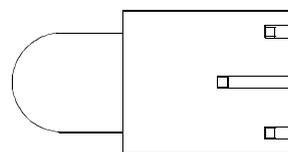
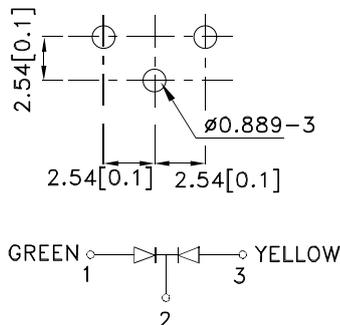
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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

Package Dimensions



RECOMMENDED PCB LAYOUT



- 1 ANODE GREEN
- 2 COMMON CATHODE
- 3 ANODE YELLOW

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. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP59BL/GYW	Green (GaP)	White Diffused	50	100	60°
	Yellow (GaAsP/GaP)		20	40	

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.
3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Green Yellow	565 590		nm	I _F =20mA
λ _D [1]	Dominant Wavelength	Green Yellow	568 588		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	Green Yellow	30 35		nm	I _F =20mA
C	Capacitance	Green Yellow	15 20		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Green Yellow	2.2 2.1	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	Green Yellow		10 10	uA	V _R = 5V

Notes:

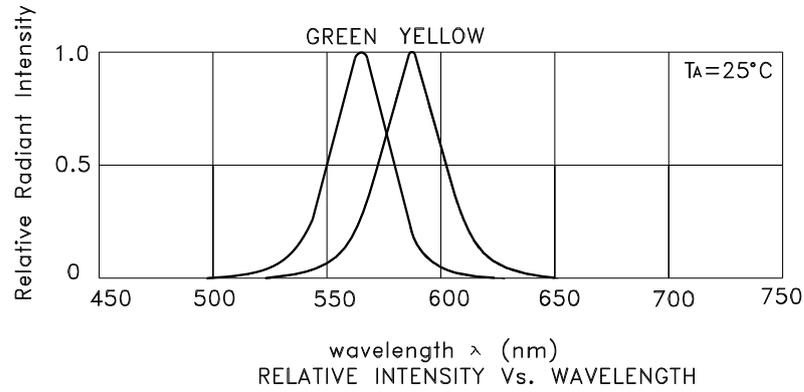
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

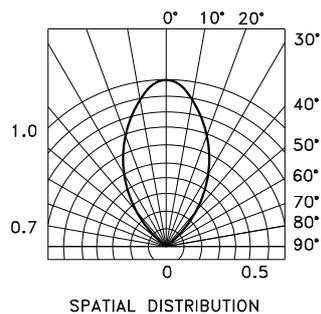
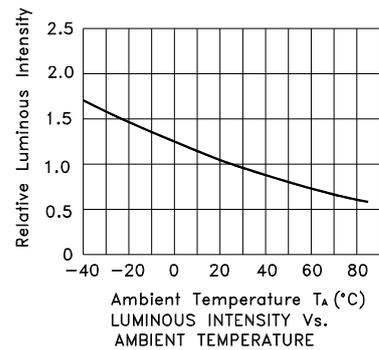
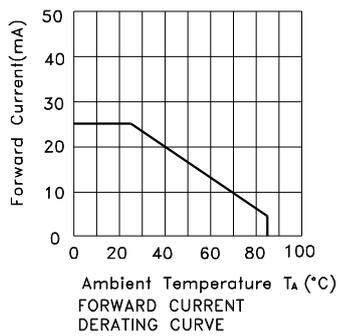
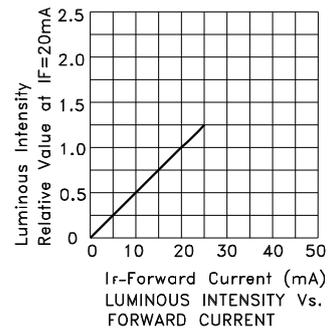
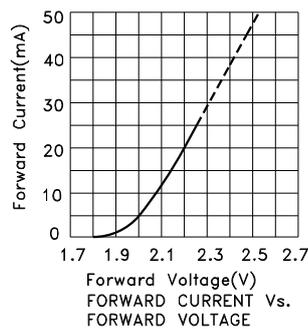
Parameter	Green	Yellow	Units
Power dissipation	62.5	75	mW
DC Forward Current	25	30	mA
Peak Forward Current [1]	140	140	mA
Reverse Voltage	5		V
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

Notes:

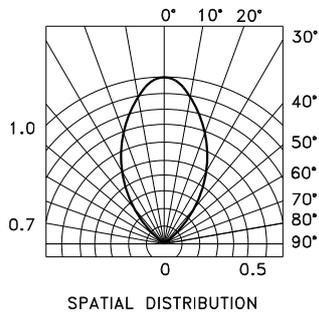
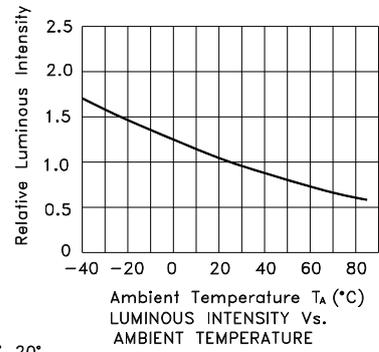
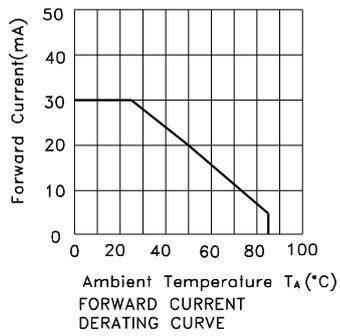
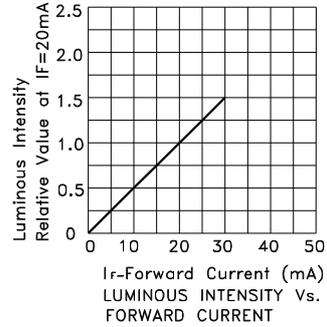
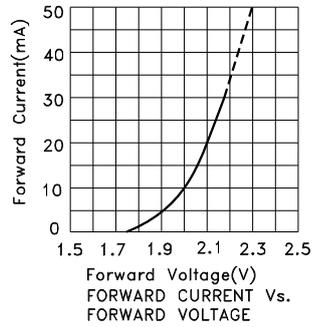
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



WP59BL/GYW Green

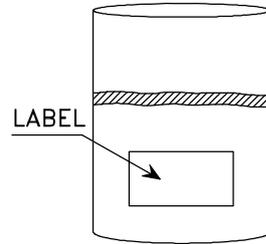
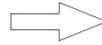
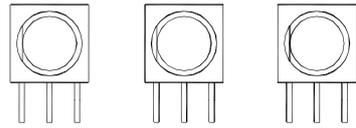


Yellow

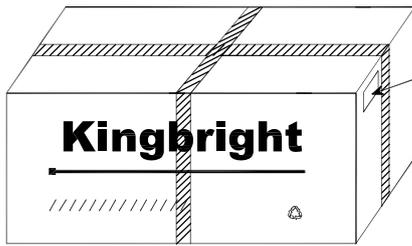


PACKING & LABEL SPECIFICATIONS

WP59BL/GYW

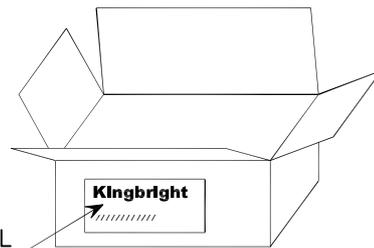


500PCS / BAG



14K / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

7K / 5# BOX

<h1>Kingbright</h1>	
P/NO: WP59BLxxx	
QTY: 500 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 <small>xxxxxxxxxxxxxxxxxxxxxxxx</small>	
RoHS Compliant	

