

Part Number: WP917CK/4YGWT

YELLOW / GREEN

Features

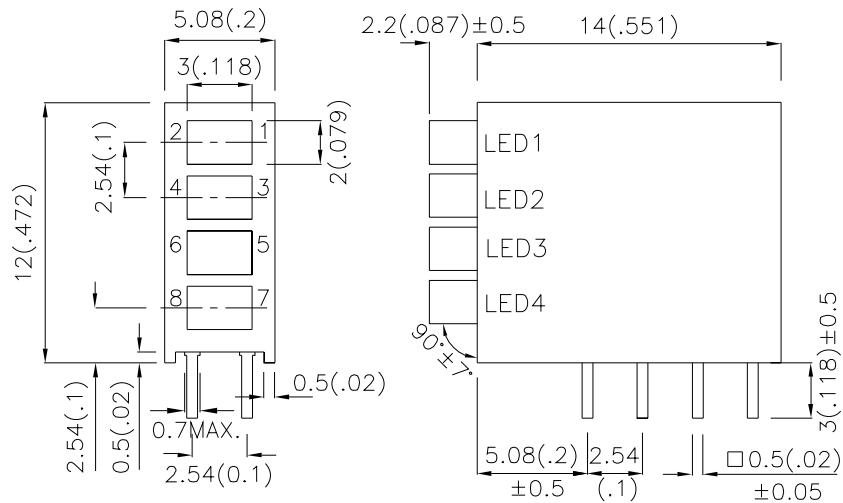
- UNIFORM LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- UL RATING :94V-0.
- HOUSING MATERIAL : TYPE 66 NYLON.
- RoHS COMPLIANT.

Description

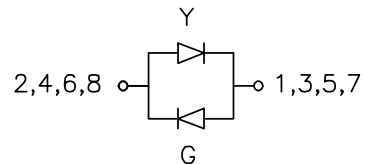
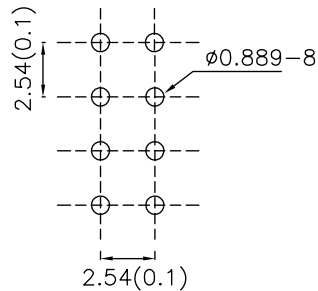
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

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
WP917CK/4YGWT	YELLOW (GaAsP/GaP)	WHITE DIFFUSED	2.6	6	100°
	GREEN (GaP)		4	10	

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:

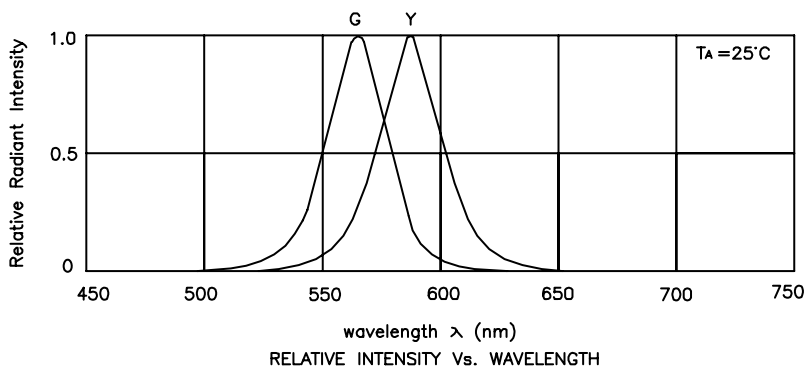
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

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		

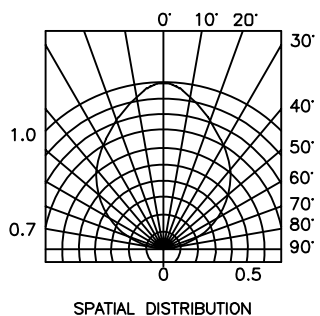
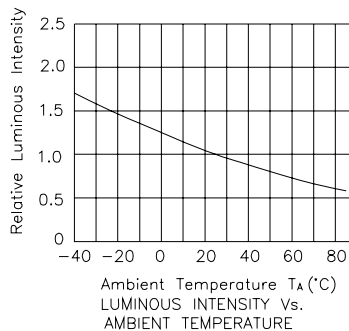
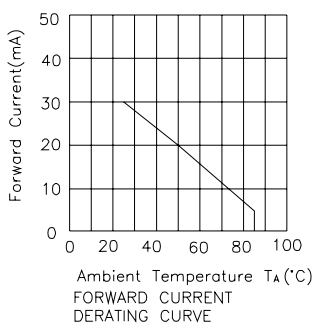
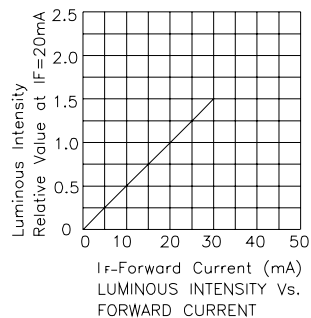
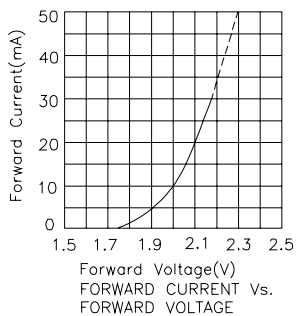
Notes:

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



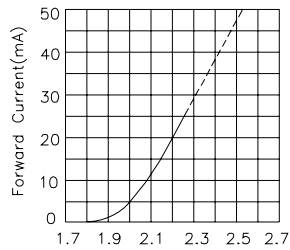
Yellow

WP937RS/YGW

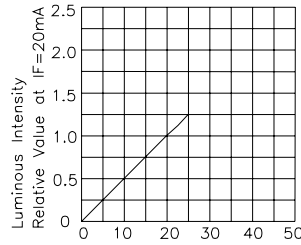


Kingbright

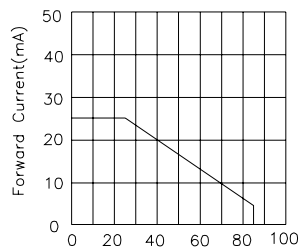
Green



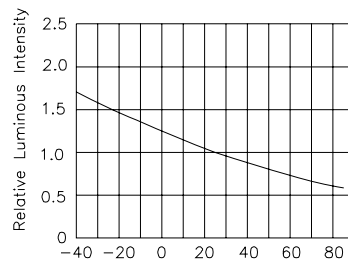
Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE



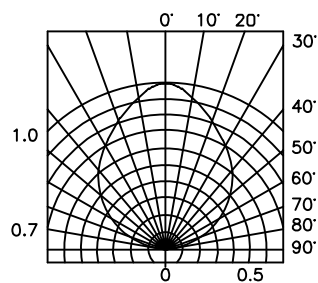
IF-Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



Ambient Temperature T_A (°C)
FORWARD CURRENT
DERATING CURVE



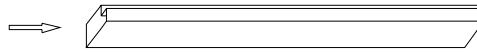
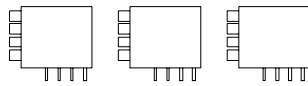
Ambient Temperature T_A (°C)
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



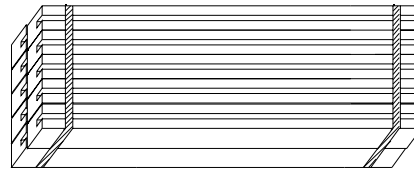
SPATIAL DISTRIBUTION

PACKING & LABEL SPECIFICATIONS

WP917CK/4YGWT



66PCS / IC TUBE




660pcs / 10pcs IC TUBE



OUTSIDE LABEL

7.92 K / 10# BOX

Kingbright	
Q.C.	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> QC xx xx xxxx PASSED </div>
TYPE NO : WP917CK/4XXX	
QUANTITY : 660 pcs	
S/N : XXX	CODE: XXXX
LOT NO  <small>xx-xxxxxx</small>	
MADE IN CHINA	RoHS Compliant