

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 |
| $\Delta\lambda_{1/2}$ | 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:

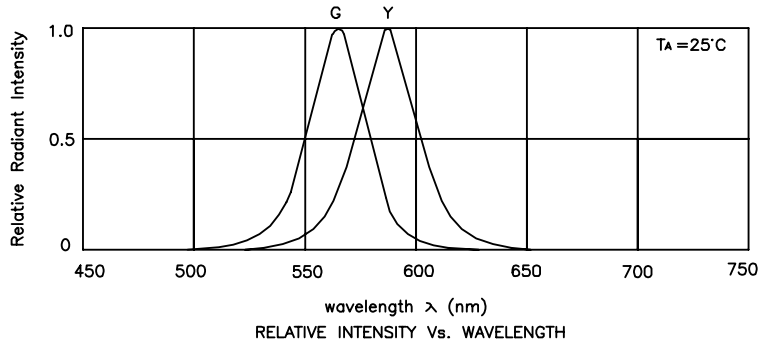
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

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 | | |

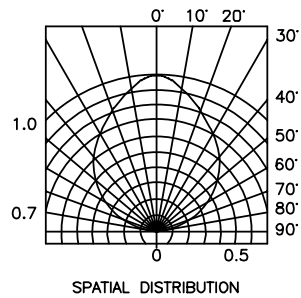
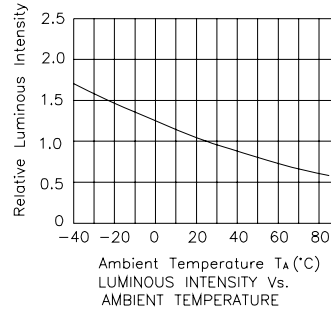
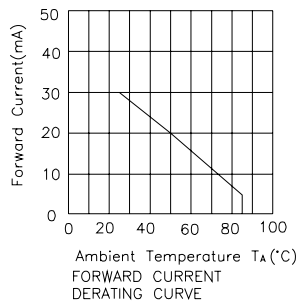
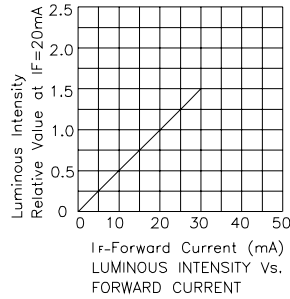
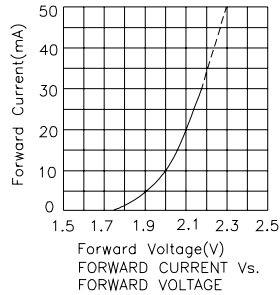
Notes:

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



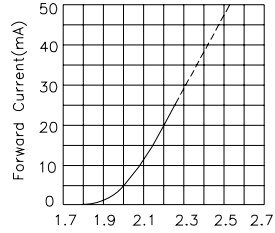
Yellow

WP937RS/YGW

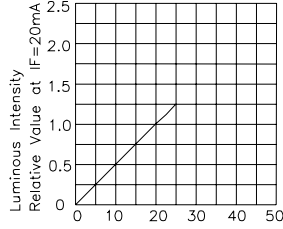


Kingbright

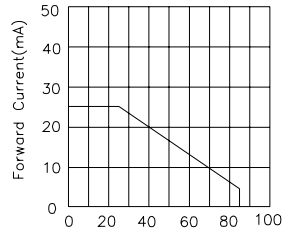
Green



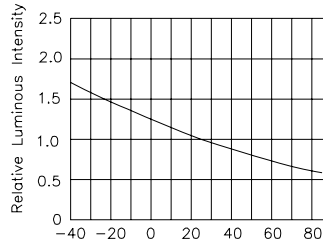
Forward Current(mA)
 FORWARD CURRENT Vs.
 FORWARD VOLTAGE



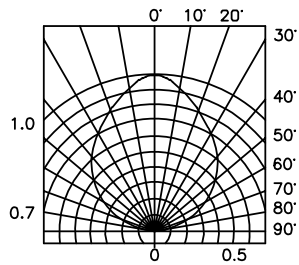
Luminous Intensity
 Relative Value at IF=20mA
 Ir-Forward Current (mA)
 LUMINOUS INTENSITY Vs.
 FORWARD CURRENT



Forward Current(mA)
 Ambient Temperature T_A (°C)
 FORWARD CURRENT
 DERATING CURVE



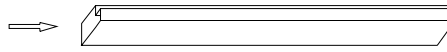
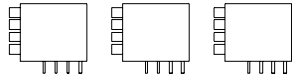
Relative Luminous Intensity
 Ambient Temperature T_A (°C)
 LUMINOUS INTENSITY Vs.
 AMBIENT TEMPERATURE



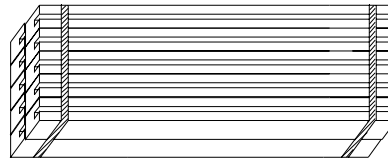
SPATIAL DISTRIBUTION

PACKING & LABEL SPECIFICATIONS

WP917CK/4YGWT



66PCS / IC TUBE




660pcs / 10pcs IC TUBE



OUTSIDE LABEL

7.92 K / 10# BOX

| | | | | |
|--|--|----|------------|--------|
| Kingbright | | | | |
| Q.C. | <table border="1"> <tr> <td style="text-align: center;">QC</td> </tr> <tr> <td style="text-align: center;">xx xx xxxx</td> </tr> <tr> <td style="text-align: center;">PASSED</td> </tr> </table> | QC | xx xx xxxx | PASSED |
| QC | | | | |
| xx xx xxxx | | | | |
| PASSED | | | | |
| TYPE NO : WP917CK/4XXX | | | | |
| QUANTITY : 660 pcs | | | | |
| S/N : XXX | CODE: XXXX | | | |
| LOT NO  | | | | |
| MADE IN CHINA | RoHS Compliant | | | |