

W917CK/4YGW

YELLOW / GREEN

Features

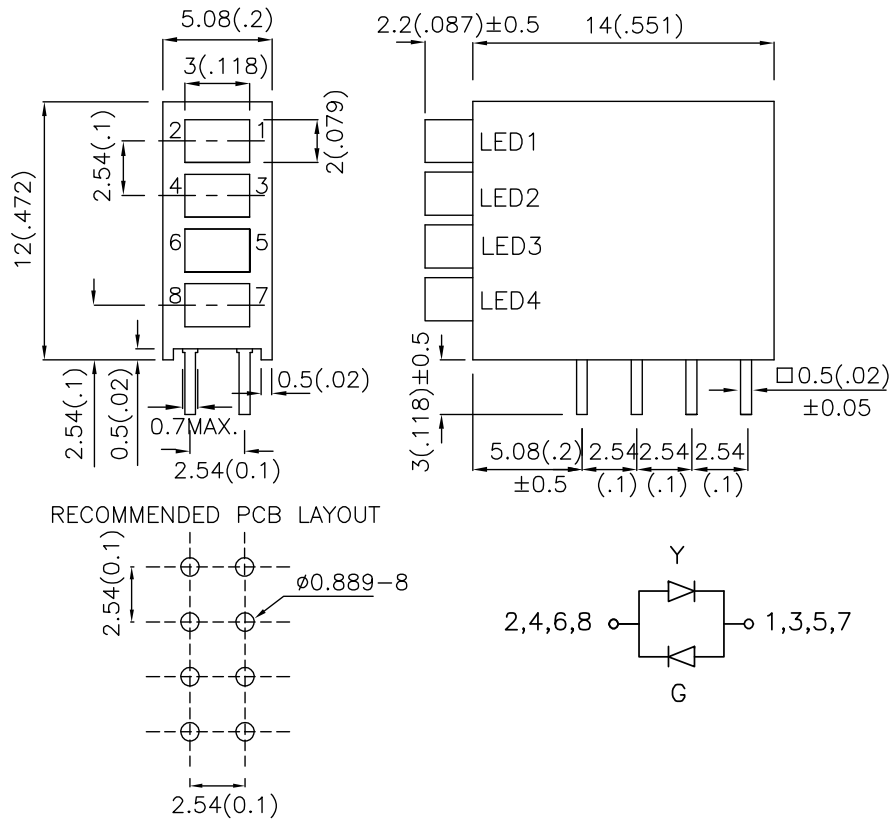
- UNIFORM LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- UL RATING :94V-0.
- HOUSING MATERIAL : TYPE 66 NYLON.
- RoHS COMPLIANT.

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



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) @ 20mA | | Viewing Angle |
|-------------|--------------------|----------------|--------------------|------|------------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| W917CK/4YGW | YELLOW (GaAsP/GaP) | WHITE DIFFUSED | 2.6 | 6 | 100° |
| | GREEN (GaP) | | 4 | 10 | |

Note:

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

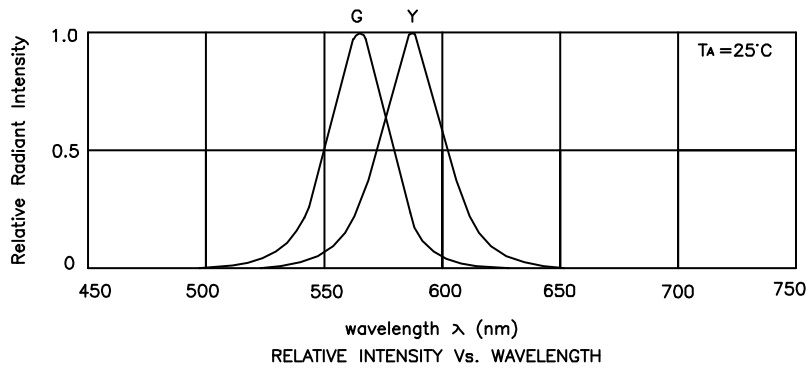
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------------|--------------------------|-----------------|------------|------------|-------|---------------------------|
| λ_{peak} | Peak Wavelength | Yellow Green | 590 565 | | nm | I _F =20mA |
| λ_D | Dominant Wavelength | 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 | Forward Voltage | Yellow Green | 2.1 2.2 | 2.5 2.5 | V | I _F =20mA |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Yellow | Green | Units |
|-------------------------------|---------------------|-------|-------|
| Power dissipation | 105 | 105 | 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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