

W91A6YGW YELLOW / GREEN

Features

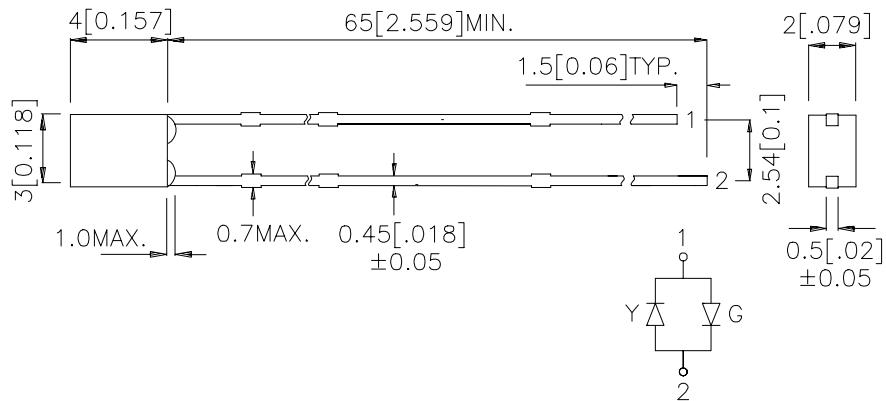
- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.

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 ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | I _V (mcd) @ 20 mA | | Viewing Angle |
|----------|--------------------|----------------|------------------------------|------|---------------|
| | | | Min. | Typ. | |
| W91A6YGW | YELLOW (GaAsP/GaP) | WHITE DIFFUSED | 1.6 | 4 | 201/2 110° |
| | GREEN (GaP) | | 4 | 9 | |

Note:

1. θ1/2 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

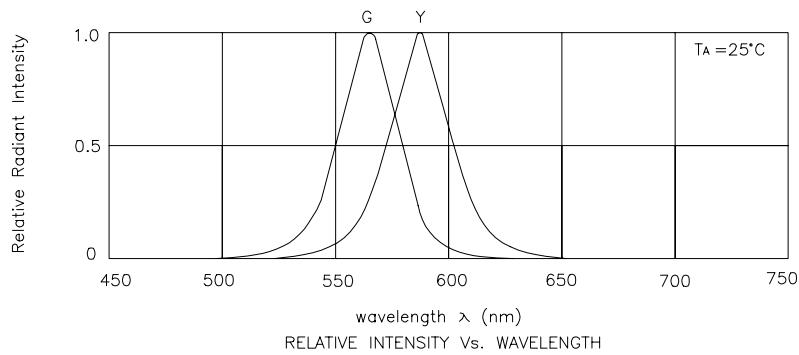
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|--------------|------------|------------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | Yellow Green | 590 565 | | nm | I _F =20mA |
| λ D | Dominate Wavelength | Yellow Green | 588 568 | | nm | I _F =20mA |
| Δλ1/2 | 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 5 Seconds | | |

Notes:

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



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