

W91A6YGW

YELLOW / GREEN

### Features

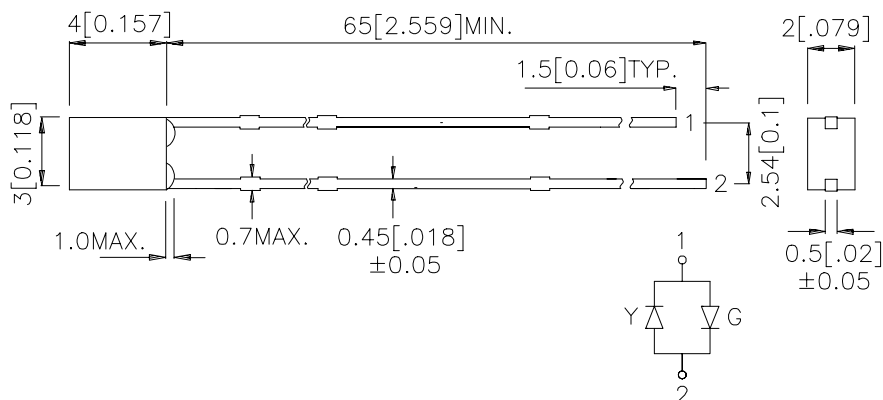
- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.

### 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  $\pm 0.25$  (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	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2 $\theta$ 1/2
W91A6YGW	YELLOW (GaAsP/GaP)	WHITE DIFFUSED	1.6	4	110°
	GREEN (GaP)		4	9	

Note:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

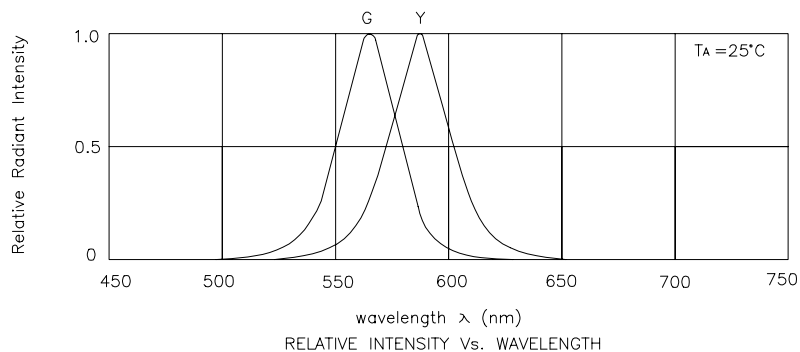
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Yellow Green	590 565		nm	I <sub>F</sub> =20mA
$\lambda_D$	Dominate Wavelength	Yellow Green	588 568		nm	I <sub>F</sub> =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow Green	35 30		nm	I <sub>F</sub> =20mA
C	Capacitance	Yellow Green	20 15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Yellow Green	2.1 2.2	2.5 2.5	V	I <sub>F</sub> =20mA

## Absolute Maximum Ratings at T<sub>A</sub>=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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