

W91A6GNW

GREEN / PURE ORANGE

### Features

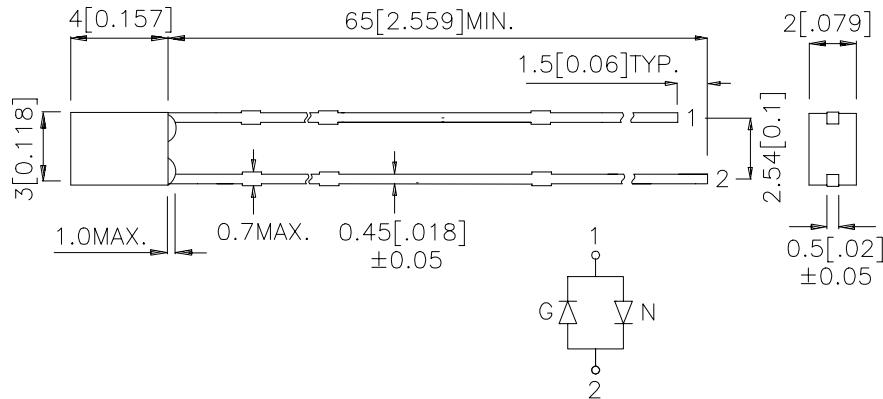
- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.

### Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The Pure Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Pure Orange 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	I <sub>v</sub> (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
W91A6GNW	GREEN(GaP)	WHITE DIFFUSED	2.6	8	110°
	PURE ORANGE (GaAsP/GaP)		4	10	

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<sub>A</sub>=25°C

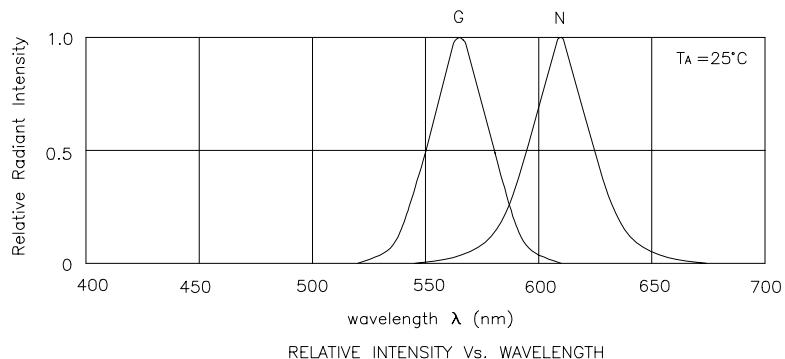
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green Pure Orange	565 607		nm	I <sub>F</sub> =20mA
λ D	Dominate Wavelength	Green Pure Orange	568 610		nm	I <sub>F</sub> =20mA
Δλ1/2	Spectral Line Half-width	Green Pure Orange	30 35		nm	I <sub>F</sub> =20mA
C	Capacitance	Green Pure Orange	15 15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Green Pure Orange	2.2 2.05	2.5 2.5	V	I <sub>F</sub> =20mA

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

Parameter	Green	Pure Orange	Units
Power dissipation	105	105	mW
DC Forward Current	25	25	mA
Peak Forward Current [1]	140	145	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.



## Green / Pure Orange W91A6GNW

