

W53YD12V

YELLOW

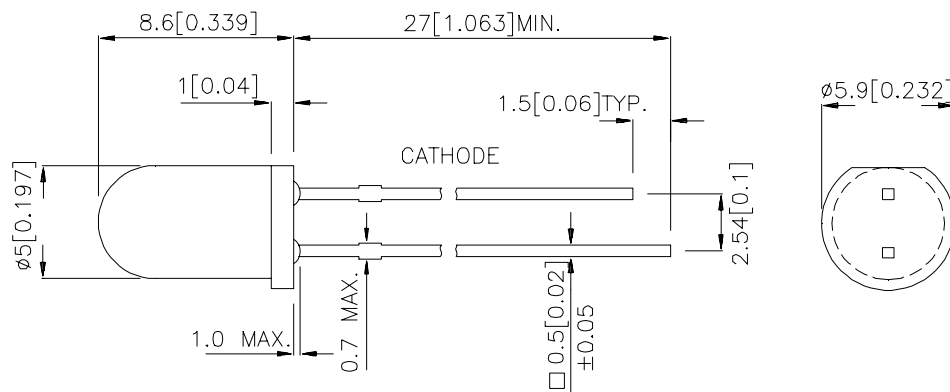
### Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- 12V INTERNAL RESISTOR.

### Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow 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) V=12V		Viewing Angle
			Min.	Typ.	2θ1/2
W53YD12V	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	5	20	30°

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

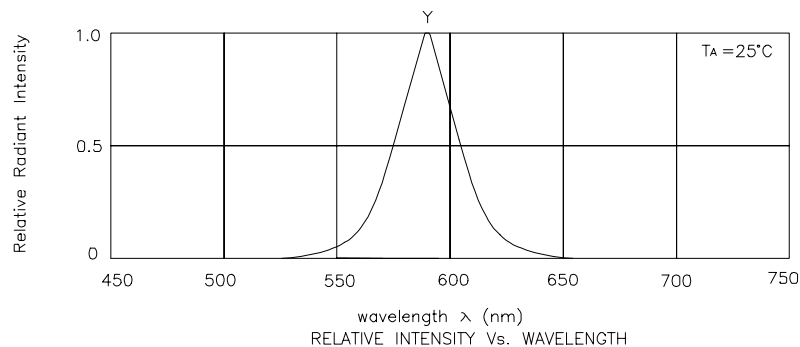
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Yellow	590		nm	V <sub>F</sub> =12V
λ <sub>D</sub>	Dominate Wavelength	Yellow	588		nm	V <sub>F</sub> =12V
Δλ <sub>1/2</sub>	Spectral Line Half-width	Yellow	35		nm	V <sub>F</sub> =12V
I <sub>F</sub>	Forward Current	Yellow	8.5	11.5	mA	V <sub>F</sub> =12V
I <sub>R</sub>	Reverse Current	Yellow		10	μA	V <sub>R</sub> = 5V

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

Parameter	Yellow	Units
Power dissipation	120	mW
Forward Voltage	14	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [1]	260°C For 5 Seconds	

Note:

1. 2mm below package base.



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