

P/N: L-53YD-12V

YELLOW

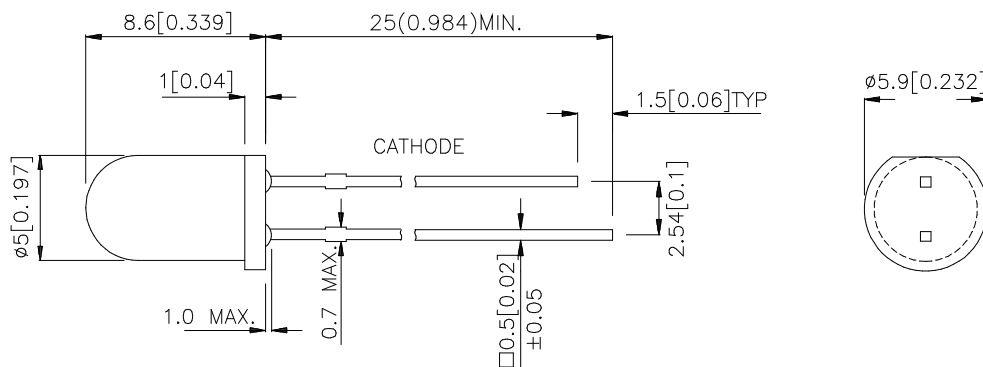
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 12V INTERNAL RESISTOR.
- RoHS COMPLIANT.

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 leads emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] V= 12V		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-53YD-12V	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	5	20	60°

Notes:

1. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous Intensity / Luminous Flux: +/-15%.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Yellow	590		nm	V _F =12V
λ_D [1]	Dominant Wavelength	Yellow	588		nm	V _F =12V
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow	35		nm	V _F =12V
I _F	Forward Current	Yellow	8.5	11.5	mA	V _F =12V
I _R	Reverse Current	Yellow		10	uA	V _R = 5V

Note:

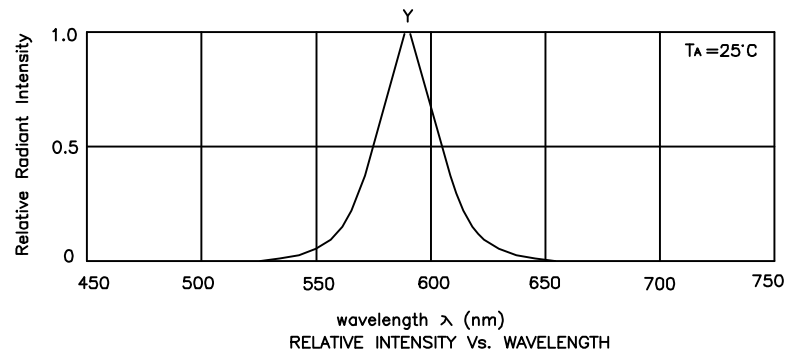
1. Wavelength: +/-1nm.

Absolute Maximum Ratings at T_A=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 3 Seconds	
Lead Solder Temperature[2]	260°C For 5 Seconds	

Notes:

1. 2mm below package base.
2. 5mm below package base.



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