

P/N: L-7113YD-12V

YELLOW

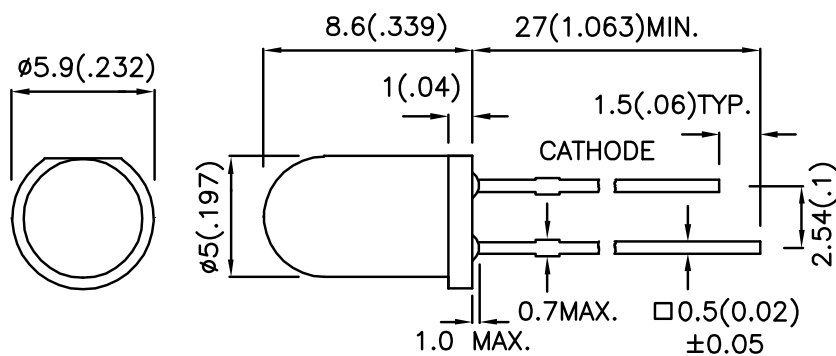
### Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 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) V= 12V		Viewing Angle
			Min.	Typ.	θ1/2
L-7113YD-12V	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 TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Yellow	590		nm	VF=12V
$\lambda_D$	Dominant Wavelength	Yellow	588		nm	VF=12V
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow	35		nm	VF=12V
IF	Forward Current	Yellow	8.5	11.5	mA	VF=12V
IR	Reverse Current	Yellow		10	uA	VR = 5V

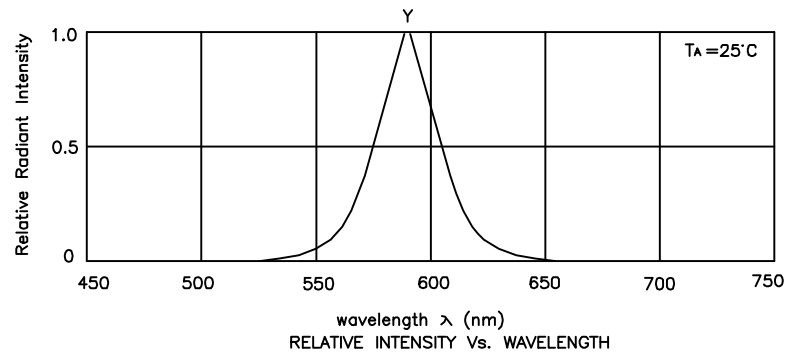
## Absolute Maximum Ratings at TA=25°C

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:

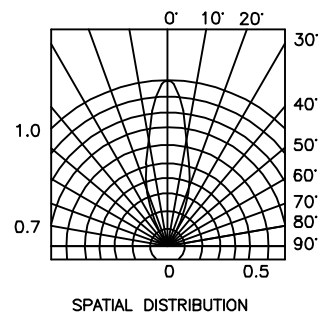
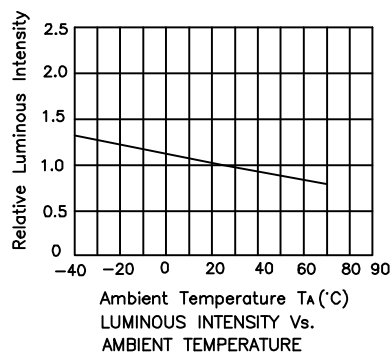
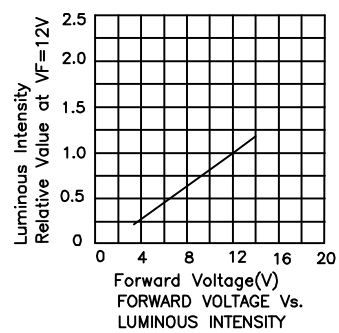
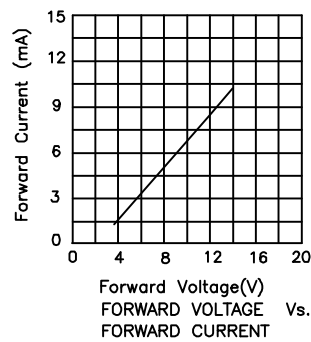
1.2mm below package base.

2.5mm below package base.



Yellow

L-7113YD-12V



Remarks:

If special sorting is required (e.g. binning based on luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength:  $\pm 1\text{nm}$
2. Luminous Intensity/ Luminous Flux:  $\pm 15\%$

Note: Accuracy may depend on the sorting parameters.