

5mm LEDs

Order code	Manufacturer code	Description
56-1560	L-7113YD-12V	5MM 12V YELLOW LED (RC)

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The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

P/N: L-7113YD-12V

YELLOW

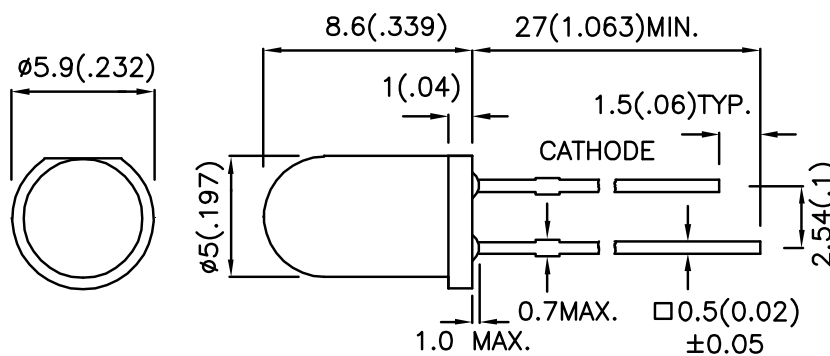
Features

- 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
λ_{peak}	Peak Wavelength	Yellow	590		nm	VF=12V
λ_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

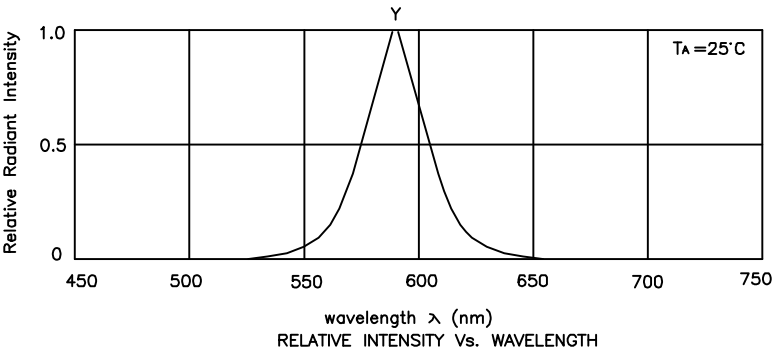
Absolute Maximum Ratings at TA=25°C

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:

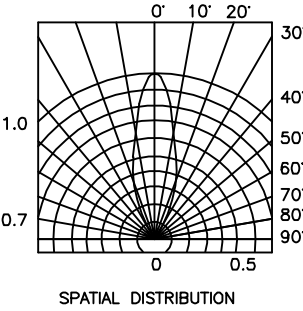
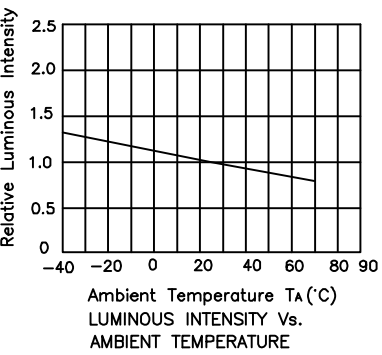
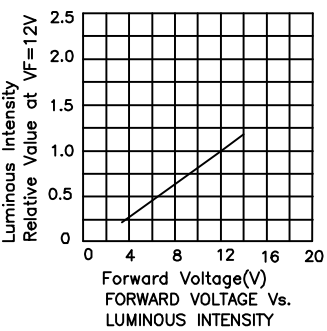
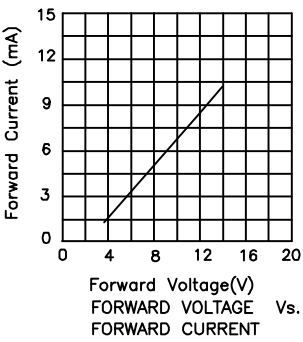
1.2mm below package base.

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.