

**Features**

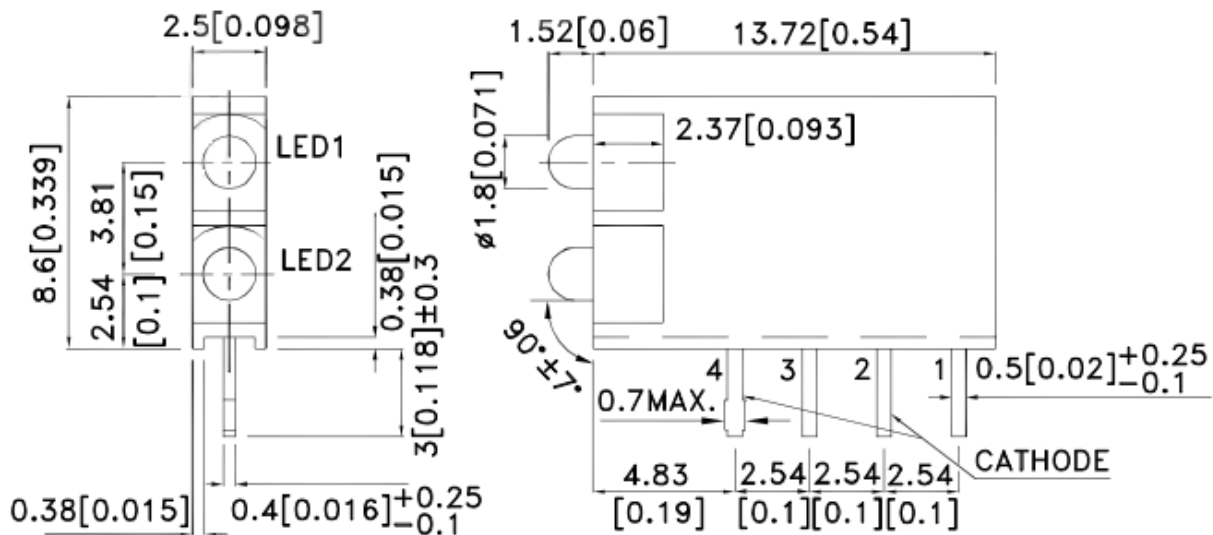
- Pre-trimmed leads for pc mounting.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Housing UL rating: 94V-0
- Housing material: type 66 nylon.
- RoHS compliant

**Description**

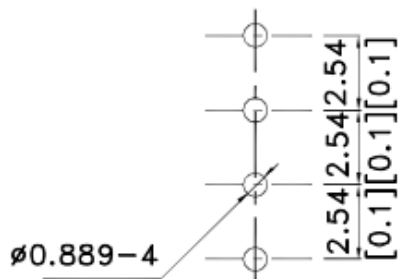
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

**Package Dimensions**

LED1,2: YELLOW



**RECOMMENDED PCB LAYOUT**



**Notes:**

- All dimensions are in millimeters (inches).
- Tolerance is ±0.25(0.01") unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

**Selection Guide**

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
SE-VD-YYLC	Yellow (GaAsP/GaP)	Yellow Diffused	4	8	70°

## Notes:

1.  $\theta_{1/2}$  is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.
3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

**Electrical / Optical Characteristics at Ta=25°C**

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Yellow	590	--	nm	IF=20mA
$\lambda_D$ [1]	Dominant Wavelength	Yellow	588	--	nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow	35	--	nm	IF=20mA
C	Capacitance	Yellow	20	--	pF	VF=0V;f=1Mhz
VF [2]	Forward Voltage	Yellow	2.1	2.5	V	IF=20mA
IR	Reverse Current	Yellow	--	10	uA	VR=5V

## Notes:

1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

**Absolute Maximum Ratings at Ta=25°C**

Parameter	Yellow	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

## Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.