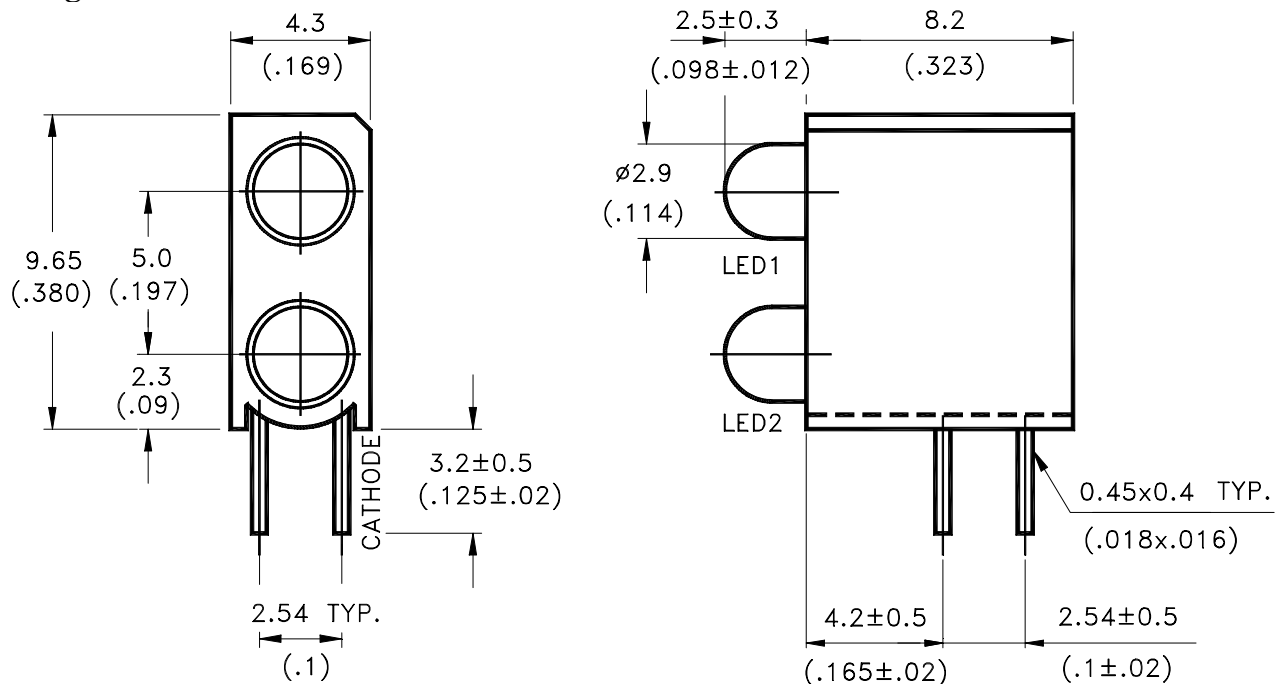


## Features

- \* Designed for ease in circuit board assembly.
- \* Black case enhance contrast ratio.
- \* Solid state light source.
- \* Reliable and rugged.

## Package Dimensions



Part No.	Lens	Source Color
LTL-4251N	Yellow Diffused	Yellow
LTL-4231N	Green Diffused	Green

### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}(.010")$  unless otherwise noted.
3. The holder color is black.
4. The holder raw material is PC& the holder is 46L025 .
5. The LED1 lamp is LTL-4251N  
The LED2 lamp is LTL-4231N.



**L I T E - O N   E L E C T R O N I C S , I N C .**

**Property of Lite-On Only**

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

Parameter	Green	Yellow	Unit
Power Dissipation	100	60	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	80	mA
Continuous Forward Current	30	20	mA
Derating Linear From 50°C	0.4	0.25	mA/°C
Reverse Voltage	5	5	V
Operating Temperature Range	-55°C to + 100°C		
Storage Temperature Range	-55°C to + 100°C		
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds		

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	LTL-42M4NMHCP	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	Yellow Green	1.7 3.7	5.6 12.6		mcd	I <sub>F</sub> = 10mA Note 1,4
Viewing Angle	2 $\theta_{1/2}$	Yellow Green		60		deg	Note 2 (Fig.6)
Peak Emission Wavelength	$\lambda_p$	Yellow Green		585 565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	$\lambda_d$	Yellow Green		588 569		nm	Note 3
Spectral Line Half-Width	$\Delta \lambda$	Yellow Green		35 30		nm	
Forward Voltage	V <sub>F</sub>	Yellow Green		2.1 2.1	2.6 2.6	V	I <sub>F</sub> = 20mA
Reverse Current	I <sub>R</sub>	Yellow Green			100	$\mu$ A	V <sub>R</sub> = 5V
Capacitance	C	Yellow Green		15 35		pF	V <sub>F</sub> = 0 , f = 1MHz

- Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength,  $\lambda_d$  is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. I<sub>v</sub> needs  $\pm 15\%$  additional for guaranteed limits.

## Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

