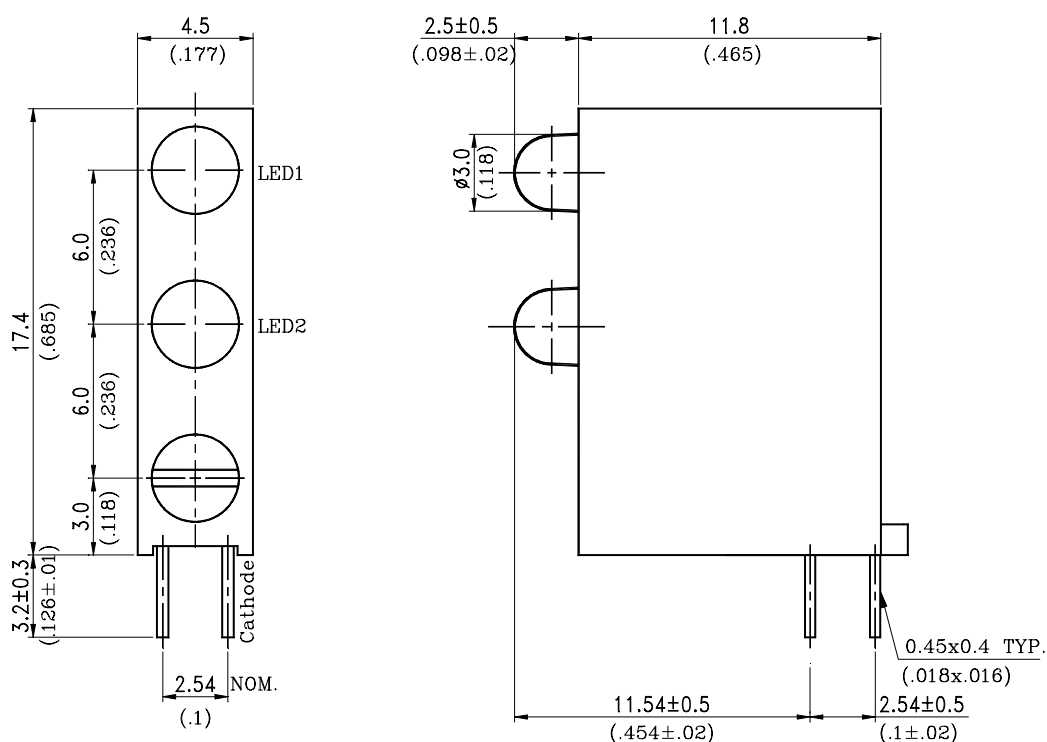


Features

- * 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-4231N	Green Diffused	Green
LTL-4251N	Yellow Diffused	Yellow

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 holders raw material is nylon.
5. The LED1 lamp is LTL-4231N
The LED2 lamp is LTL-4251N.



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 T_a=25°C

Parameter	Symbol	LTL-42M2NH59P	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	Green	3.7	12.6		mcd	I _F = 10mA Note 1,4
		Yellow	1.7	5.6			
Viewing Angle	2θ _{1/2}	Green		60		deg	Note 2 (Fig.6)
		Yellow					
Peak Emission Wavelength	λ _p	Green		565		nm	Measurement @Peak (Fig.1)
		Yellow		585			
Dominant Wavelength	λ _d	Green		569		nm	Note 3
		Yellow		588			
Spectral Line Half-Width	Δλ	Green		30		nm	
		Yellow		35			
Forward Voltage	V _F	Green		2.1	2.6	V	I _F = 20mA
		Yellow		2.1	2.6		
Reverse Current	I _R	Green			100	μA	V _R = 5V
		Yellow					
Capacitance	C	Green		35		pF	V _F = 0, f = 1MHz
		Yellow		15			

Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

2. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

3. The dominant wavelength, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

4. I_v needs ±15% additinary for guaranteed limits.

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

