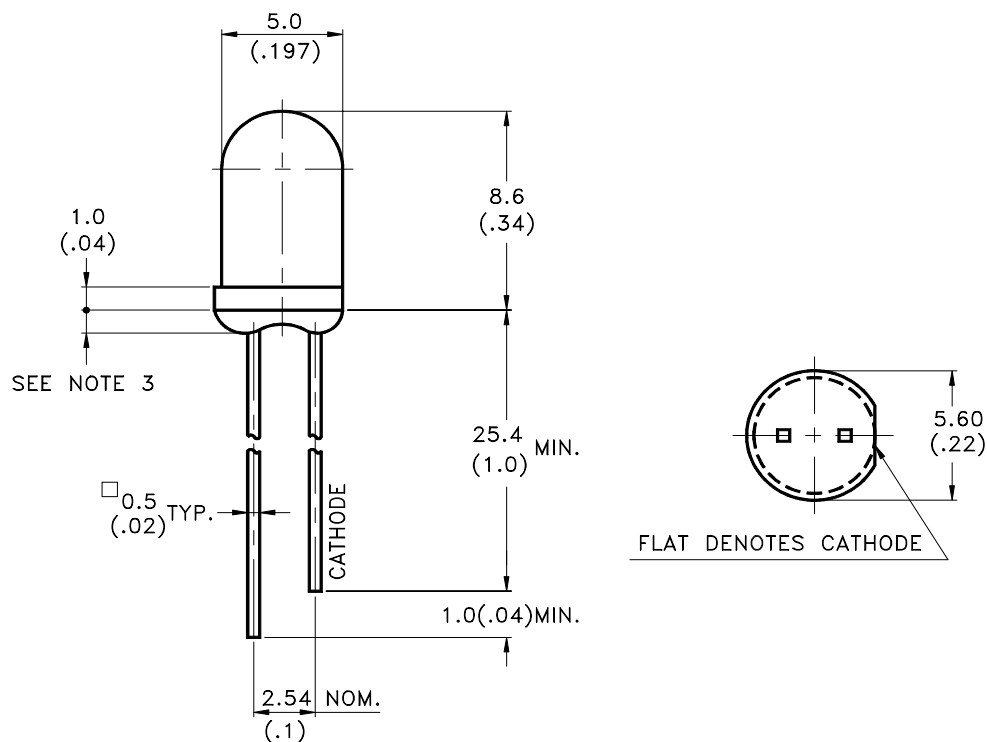


Features

- * Integral current limiting resistor LED.
- * Chip resistor built in, required with 5 volts supply.
- * Cost effective (save external resistor space and cost)

Package Dimensions



Part No.	Lens	Source Color
LTL-4233-R1	Green Diffused	Green

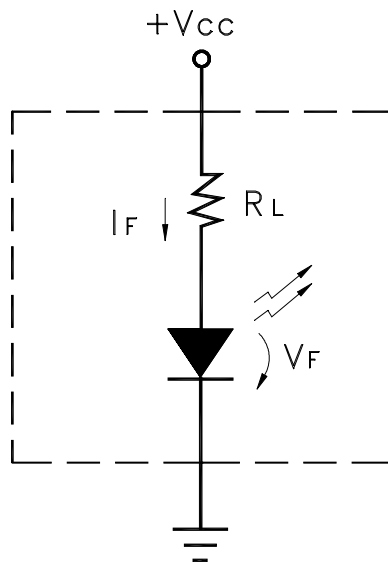
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}(.010\text{'})$ unless otherwise noted.
3. Protruded resin under flange is 1.0mm(.04") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.

Absolute Maximum Ratings at TA=25°C

Parameter	Maximum Rating	Unit
DC Forward Voltage (TA=25°C)	7.5	V
Derating Linear From 50°C	0.071	V/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to + 85°C	
Storage Temperature Range	-55°C to + 100°C	
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds	

Equivalent circuit:



$V_{CC} = 5 \text{ Volts}$
 $(R_L = 240 \text{ ohms} \pm 20\%)$

$$I_F = \frac{V_{CC} - V_F}{R_L}$$

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	12.6	40		mcd	V _{CC} = 5V Note 1,4
Viewing Angle	$2\theta_{1/2}$		36		deg	Note 2 (Fig.5)
Peak Emission Wavelength	λ_p		565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ_d		569		nm	Note 3
Spectral Line Half-Width	$\Delta\lambda$		30		nm	
Forward Current	I_F	8	12	16	mA	V _{CC} = 5V
Reverse Current	I_R			100	μA	V _R = 5V

- Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) 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, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. The I_v guarantee should be added $\pm 15\%$.

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

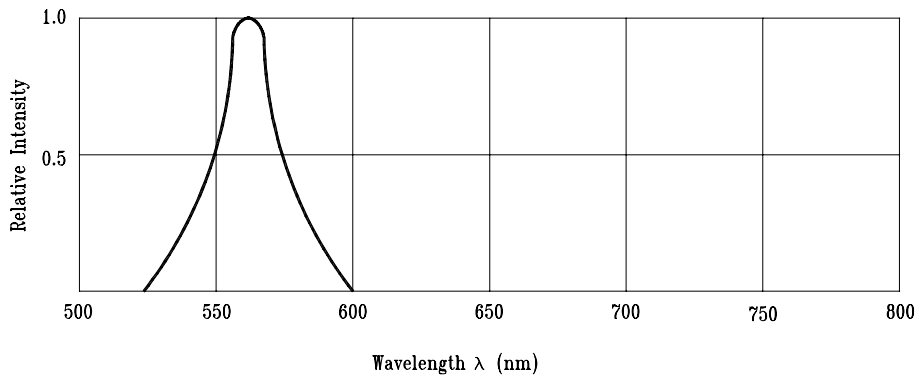


Fig.1 Relative Intensity vs. Wavelength

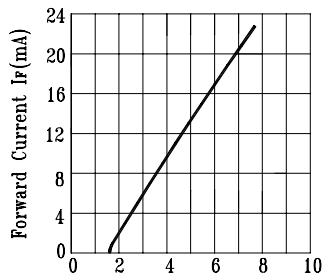


Fig.2 Forward Current vs. Applied Forward Voltage
5 Volts Devices

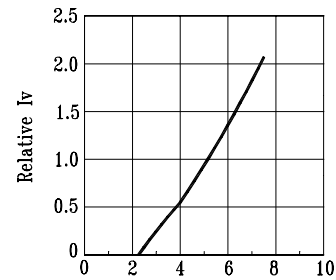


Fig.3 Relative Luminous Intensity vs. Applied Forward Current
5 Volts Devices

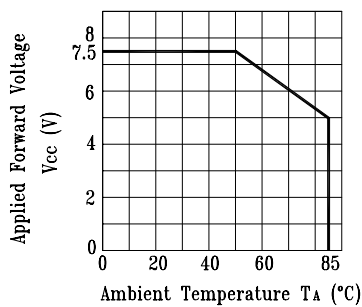


Fig.4. Maximum Allowed Applied Forward Voltage vs. Ambient Temperature
5 Volts Devices

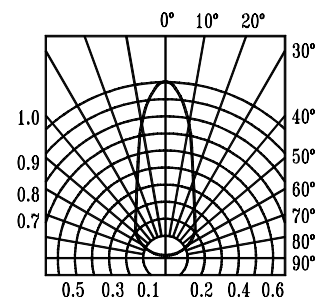




Fig.5 Spatial Distribution

Looking for pricing, stock, or lifecycle information?

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-  [Lite-On Inc. Information](#)

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-  Shortage Management
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