Property of Lite-On Only

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-4223-R1 | Red Diffused | Hi-Eff.Red | | |

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Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm(.010") 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.

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| 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 $+85^{\circ}$ C | | |
| Storage Temperature Range | -55° C to $+100^{\circ}$ C | | |
| Lead Soldering Temperature [1.6mm(.063") From Body] | 260° C for 5 Seconds | | |

Equivalent circuit:



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| Electrical / Optical Characteristics at TA=25°C | | | | | | | | |
|---|------------|------|------|------|------|----------------------------------|--|--|
| Parameter | Symbol | Min. | Тур. | Max. | Unit | Test Condition | | |
| Luminous Intensity | Iv | 8.7 | 29 | | mcd | V _{CC} = 5V Note 1,4 | | |
| Viewing Angle | 2	heta 1/2 | | 36 | | deg | Note 2 (Fig.5) | | |
| Peak Emission Wavelength | λр | | 635 | | nm | Measurement @Peak (Fig.1) | | |
| Dominant Wavelength | λd | | 623 | | nm | Note 3 | | |
| Spectral Line Half-Width | Δλ | | 40 | | nm | | | |
| Forward Current | IF | 8 | 12 | 16 | mA | $V_{CC} = 5V$ | | |
| Reverse Current | Ir | | | 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 Iv guarantee should be added $\pm 15\%$.

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