

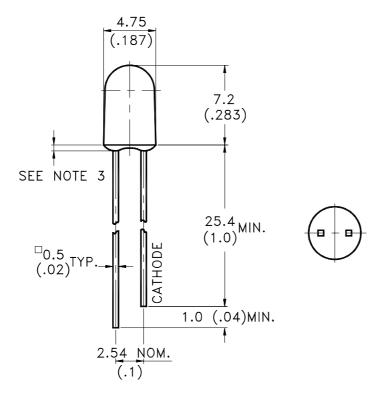
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * Low Power Consumption.
- * General Purpose Leads.
- * I.C. Compatible/low current requirement.
- * Reliable and rugged.

Package Dimensions



Part No.	Lens	Source Color	
LTL-10223W	Red Diffused	Hi-Eff.Red	

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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Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	mA	
Continuous Forward Current	30	mA	
Derating Linear From 50°C	0.4	mA/°C	
Reverse Voltage	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		

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Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	19	60		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 \theta 1/2		60		deg	Note 2 (Fig.6)
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 Voltage	V_{F}		2.0	2.6	V	$I_F = 20 \text{mA}$
Reverse Current	$I_{ m R}$			100	μ A	$V_R = 5V$
Capacitance	С		20		pF	$V_F = 0$, $f = 1MHz$

- 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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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

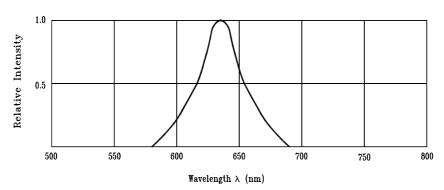
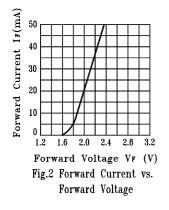
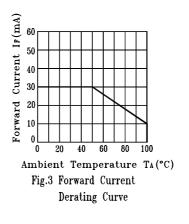
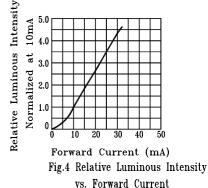
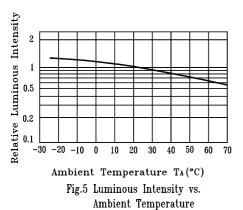


Fig.1 Relative Intensity vs. Wavelength









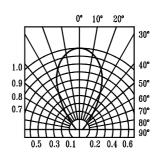


Fig.6 Spatial Distribution

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