



**Spec No.: DS-20-95-0090** Effective Date: 05/23/2000

Revision: -

**LITE-ON DCC** 

**RELEASE** 

BNS-OD-FC001/A4

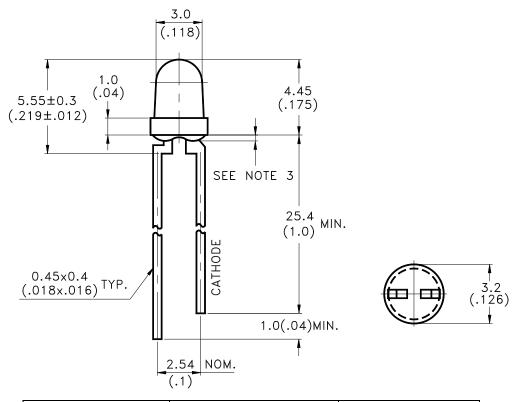
# LITEON ELECTRONICS, INC.

Property of Lite-On Only

#### **Features**

- \* High Intensity.
- \* Popular T-1 diameter package.
- \* Selected minimum intensities.
- \* General purpose leads.
- \* Reliable and rugged.

#### **Package Dimensions**



Part No.	Lens	Source Color	
LTL-4296N	Water Clear	Red Orange	

#### Notes:

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

Part No.: LTL-4296N Page: 1 of 4

# LITEON ELECTRONICS, INC.

## Property of Lite-On Only

## 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		

Part No.: LTL-4296N Page: 2 of 4



# LITEON ELECTRONICS, INC.

### Property of Lite-On Only

### Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	19	60		mcd	I <sub>F</sub> = 10mA Note 1,4
Viewing Angle	2 θ 1/2		45		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		630		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		621		nm	Note 3
Spectral Line Half-Width	Δλ		40		nm	
Forward Voltage	$V_{\mathrm{F}}$		2.0	2.6	V	I <sub>F</sub> = 20mA
Reverse Current	$I_{ m R}$			100	$\mu$ 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,  $\lambda_d$  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  $\pm 15\%$ .

### Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

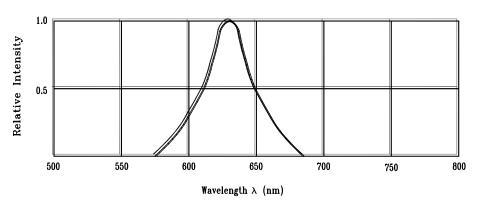
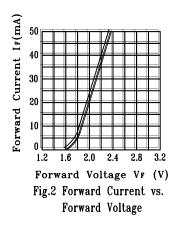
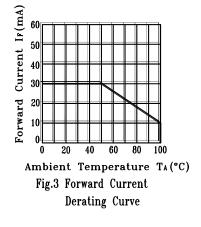
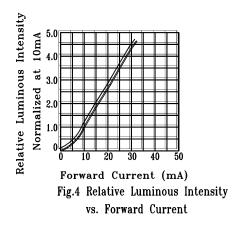
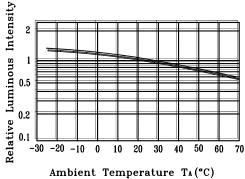


Fig.1 Relative Intensity vs. Wavelength









nbient Temperature Ta(°C; Fig.5 Luminous Intensity vs. Ambient Temperature

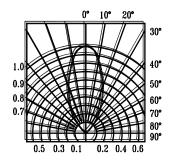


Fig.6 Spatial Distribution

Part No.: LTL-4296N Page: 4 of 4

# **Mouser Electronics**

**Authorized Distributor** 

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Lite-On: