



Through Hole Lamp Product Data Sheet LTL-3231ADG

Spec No.: DS20-2000-289

Effective Date: 07/25/2000

Revision: -

LITE-ON DCC

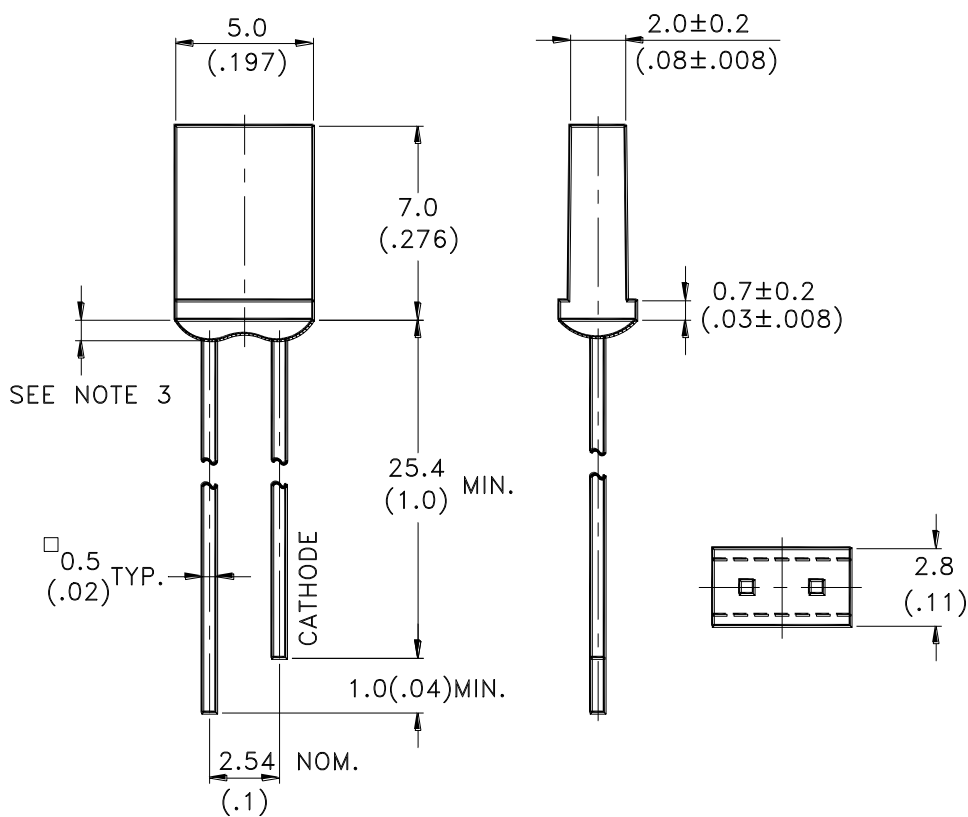
RELEASE

BNS-OD-FC001/A4

Features

- * Low power consumption.
- * Most suitable for use like level indicator.
- * Excellent uniformity of light emittance.
- * Long life-solid state reliability.
- * I.C. compatible.

Package Dimensions



Part No.	Lens	Source Color
LTL-3231ADG	Green Diffused	Green

NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±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.



Absolute Maximum Ratings at TA=25°C

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	

Electrical Optical Characteristics at $T_A=25^{\circ}\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	0.1			mcd	$I_F = 10\text{mA}$ Note 1,4
Viewing Angle	$2\theta_{1/2}$		140		deg	Note 2 (Fig.6)
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 Voltage	V_F		2.1	2.6	V	$I_F = 20\text{mA}$
Reverse Current	I_R			100	μA	$V_R = 5\text{V}$
Capacitance	C		35		pF	$V_F = 0, f = 1\text{MHz}$

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)

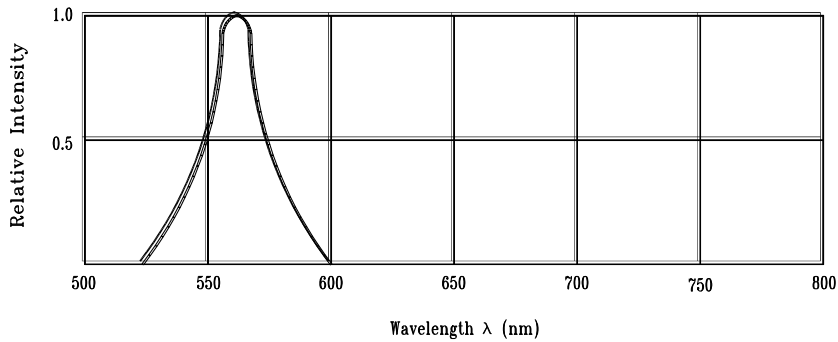


Fig.1 Relative Intensity vs. Wavelength

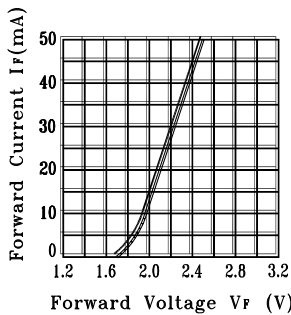


Fig.2 Forward Current vs. Forward Voltage

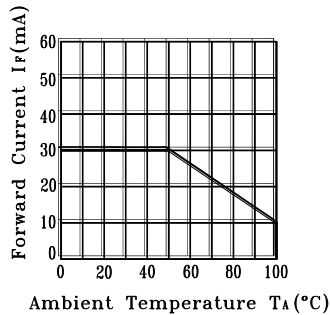


Fig.3 Forward Current Derating Curve

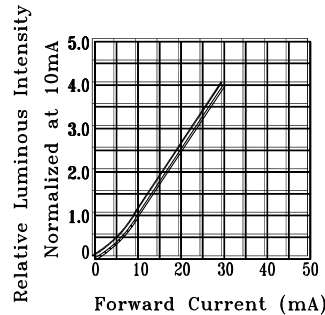


Fig.4 Relative Luminous Intensity vs. Forward Current

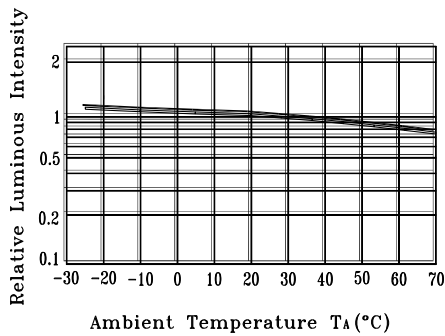


Fig.5 Luminous Intensity vs. Ambient Temperature

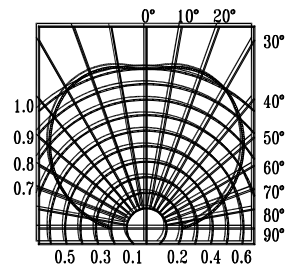


Fig.6 Spatial Distribution