



Through Hole Lamp Product Data Sheet

LTL-403P

Spec No.: DS20-2000-296

Effective Date: 07/25/2000

Revision: -

LITE-ON DCC

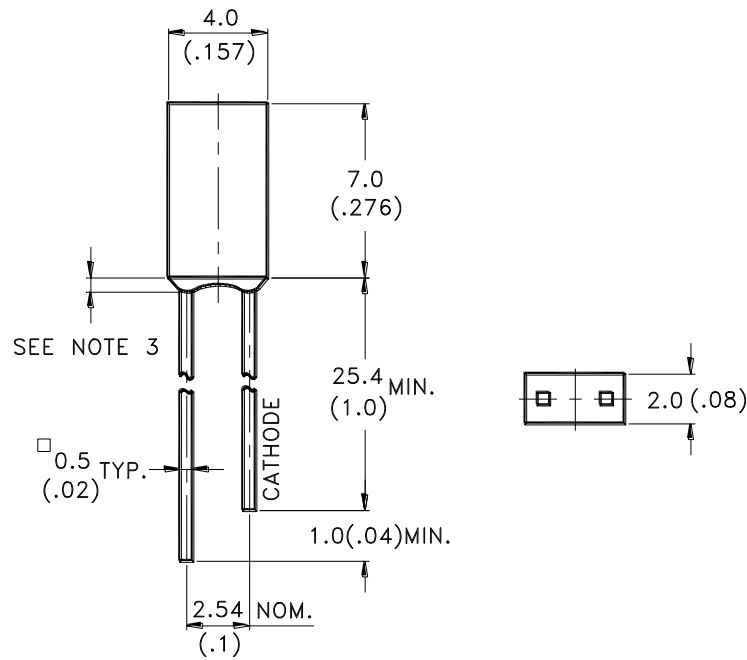
RELEASE

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-403P | Red Diffused | Bright Red |

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 |
|--|---------------------|-------|
| Power Dissipation | 40 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 60 | mA |
| Continuous Forward Current | 15 | mA |
| Derating Linear From 50°C | 0.2 | 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 TA=25°C

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-----------------|------|------|------|---------------|---------------------------------|
| Luminous Intensity | I_v | 0.4 | 1.1 | | mcd | $I_F = 10\text{mA}$ Note 1,4 |
| Viewing Angle | $2\theta_{1/2}$ | | 104 | | deg | Note 2 (Fig.6) |
| Peak Emission Wavelength | λ_P | | 697 | | nm | Measurement @Peak (Fig.1) |
| Dominant Wavelength | λ_d | | 657 | | nm | Note 3 |
| Spectral Line Half-Width | $\Delta\lambda$ | | 90 | | 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 | | 55 | | 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)

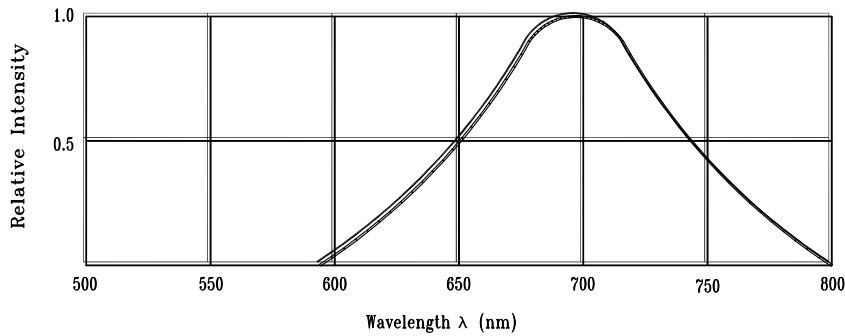


Fig.1 Relative Intensity vs. Wavelength

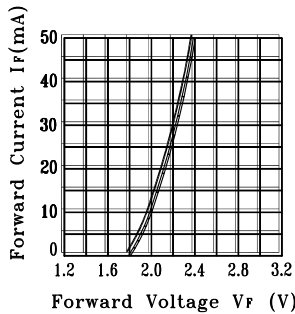


Fig.2 Forward Current vs. Forward Voltage

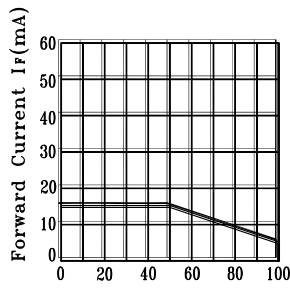


Fig.3 Forward Current Derating Curve

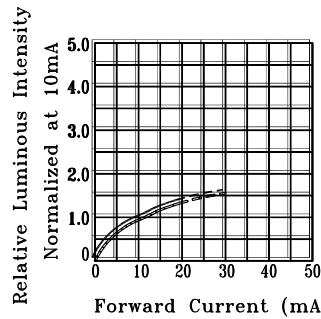


Fig.4 Relative Luminous Intensity vs. Forward Current

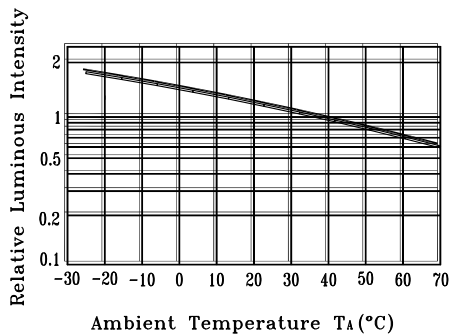


Fig.5 Luminous Intensity vs. Ambient Temperature

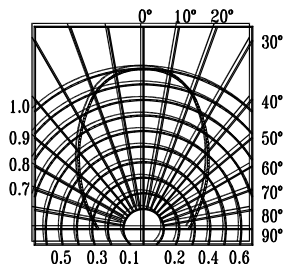


Fig.6 Spatial Distribution

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