LITEON®
OPTOELECTRONICS

# Through Hole Lamp

## Product Data Sheet

## LTL-14CHJ

**Spec No.: DS-20-92-0018**

Effective Date: 05/25/2000

Revision: -

**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4

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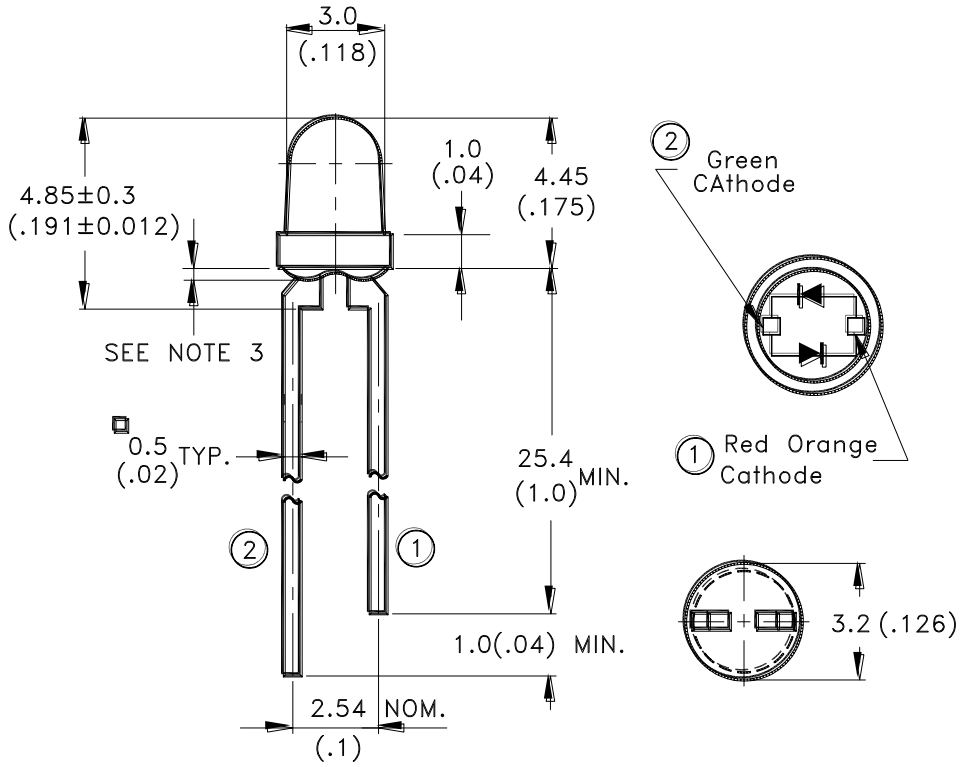
## Features

* Red Orange and Green chips are matched for uniform light output.
* T-1 type package.
* Long life solid state reliability.
* Low power consumption.
* I.C. compatible.

## Package Dimensions




| Part No. | Lens | Source Color |
|---|---|---|
| LTL-14CHJ | White Diffused | Red Orange / 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 $T_A$=25℃

| Parameter | Red Orange | Green | Unit |
|---|---|---|---|
| Power Dissipation | 100 | 100 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 120 | 120 | mA |
| Continuous Forward Current | 30 | 30 | mA |
| Derating Linear From 50℃ | 0.4 | 0.4 | mA/℃ |
| Operating Temperature Range | -55℃ to + 100℃ | | |
| Storage Temperature Range | -55℃ to + 100℃ | | |
| Lead Soldering Temperature [1.6mm(.063") From Body] | 260℃ for 5 Seconds | | |

## Electrical / Optical Characteristics at $T_A$=25℃

| Parameter | Symbol | Color | Min. | Typ. | Max. | Unit | Test Condition |
|---|---|---|---|---|---|---|---|
| Luminous Intensity | $I_V$ | Red Orange<br>Green | 2.2<br>2.2 | 4.8<br>4.8 | | mcd | $I_F$ = 20mA<br>Note 1,4 |
| Viewing Angle | $2\theta_{1/2}$ | Red Orange<br>Green | | 200 | | deg | Note 2 (Fig.6) |
| Peak Emission Wavelength | $\lambda p$ | Red Orange<br>Green | | 630<br>565 | | nm | Measurement @Peak (Fig.1) |
| Dominant Wavelength | $\lambda d$ | Red Orange<br>Green | | 621<br>569 | | nm | Note 3 |
| Spectral Line Half-Width | $\Delta \lambda$ | Red Orange<br>Green | | 40<br>30 | | nm | |
| Forward Voltage | $V_F$ | Red Orange<br>Green | | 2.0<br>2.1 | 2.6<br>2.6 | V | $I_F$ = 20mA |
| Reverse Current | $I_R$ | Red Orange<br>Green | | | 100 | $\mu$A | $V_R$ = 5V |
| Capacitance | C | Red Orange<br>Green | | 20<br>35 | | 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 ±15% .

5. Reverse current is controlled by dice source.

## Typical Electrical / Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

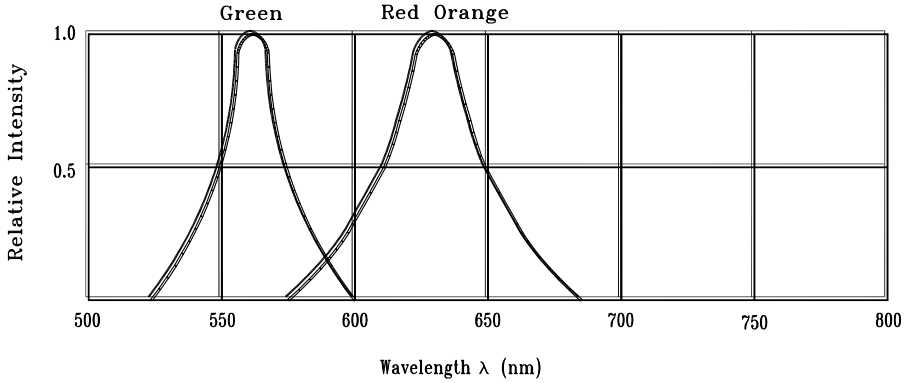



Fig.1 Relative Intensity vs. Wavelength

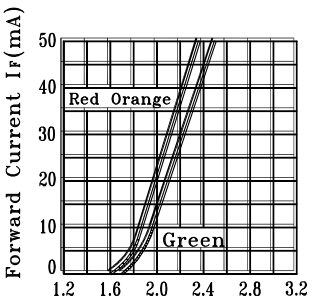



Fig.2 Forward Current vs. Forward Voltage

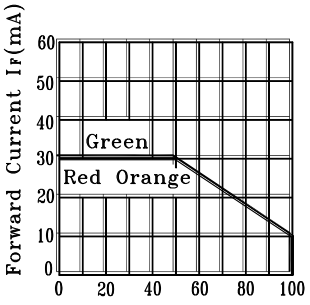



Fig.3 Forward Current Derating Curve

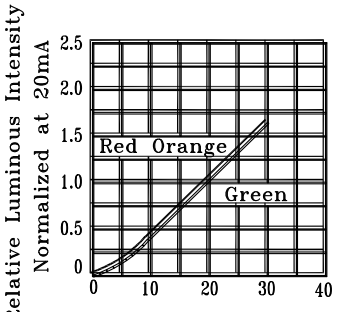



Fig.4 Relative Luminous Intensity vs. Forward Current

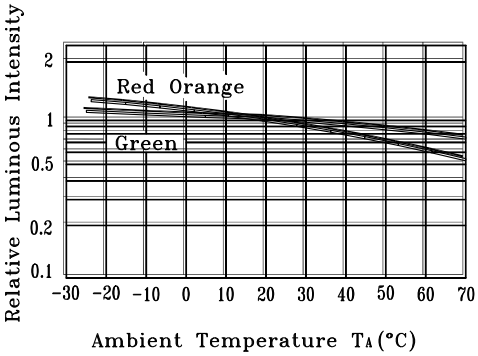



Fig.5 Luminous Intensity vs. Ambient Temperature

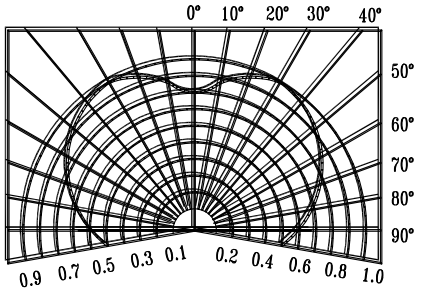



Fig.6 Spatial Distribution

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