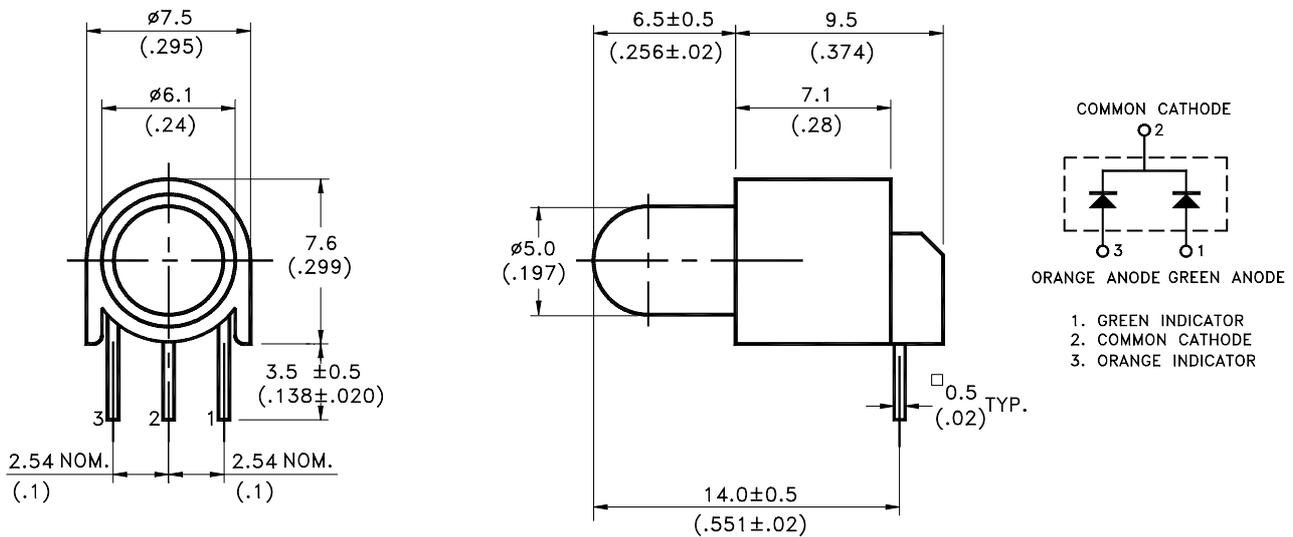


## Features

- \* Red Orange and Green chips are matched for uniform light output.
- \* T-1 3/4 type package.
- \* Long life solid state reliability.
- \* Low power consumption.

## Package Dimensions



Part No.	Lens	Source Color
LTL-30EHJ	White Diffused	Green / Red Orange

### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}(.010\text{'})$  unless otherwise noted.
3. The holder color is black.
4. The LED lamp is LTL-30EHJ.



**Absolute Maximum Ratings at Ta=25°C**

Parameter	Green	Red Orange	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°C	0.4	0.4	mA/°C
Reverse Voltage	5	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	LTL-30EHJH48P	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	Red Orange Green	12.6 8.7	40 29		mcd	I <sub>F</sub> = 20mA Note 1,4
Viewing Angle	2θ <sub>1/2</sub>	Red Orange Green		30		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ <sub>p</sub>	Red Orange Green		630 565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ <sub>d</sub>	Red Orange Green		621 569		nm	Note 3
Spectral Line Half-Width	Δλ	Red Orange Green		40 30		nm	
Forward Voltage	V <sub>F</sub>	Red Orange Green		2.0 2.1	2.6 2.6	V	I <sub>F</sub> = 20mA
Reverse Current	I <sub>R</sub>	Red Orange Green			100	μA	V <sub>R</sub> = 5V
Capacitance	C	Red Orange Green		20 35		PF	V <sub>F</sub> = 0, f = 1MHz

- NOTE: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength, λ<sub>d</sub> is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. I<sub>v</sub> needs ± 15% additional for guaranteed limits.

Property of Lite-On Only

## Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

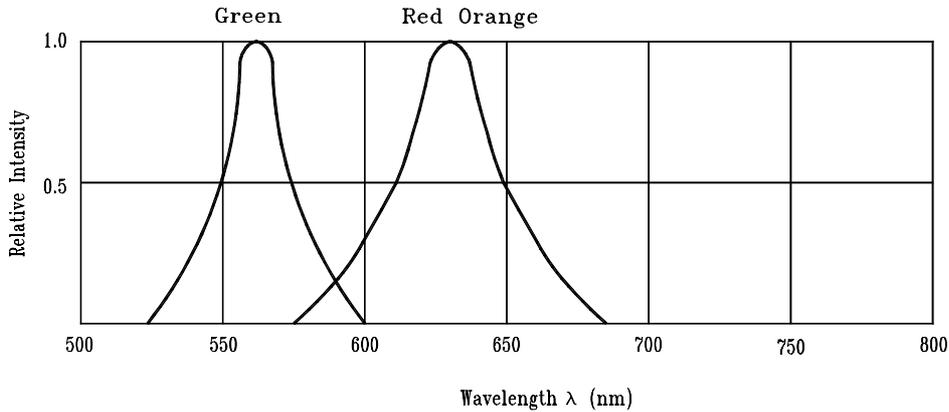


Fig.1 Relative Intensity vs. Wavelength

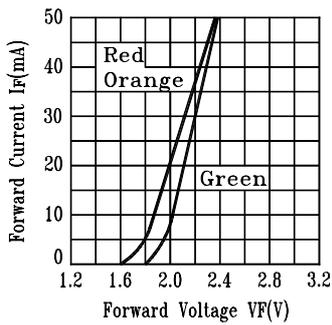


Fig.2 Forward Current vs. Forward Voltage

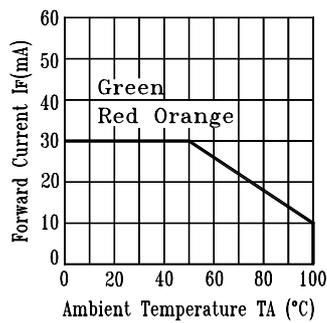


Fig.3 Forward Current Derating Curve

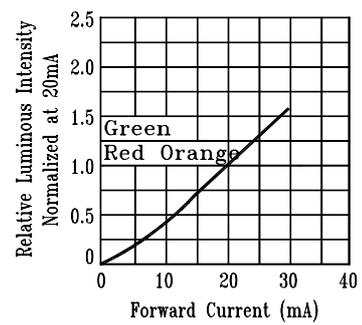


Fig.4 Relative Luminous Intensity vs. Forward Current

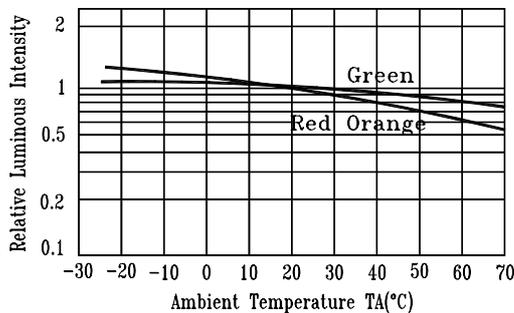


Fig.5 Luminous Intensity vs. Ambient Temperature

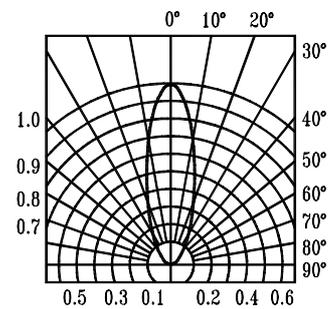


Fig.6 Spatial Distribution