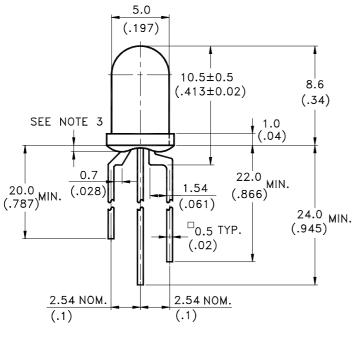
# LITEON ELECTRONICS, INC.

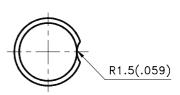
### Property of Lite-On Only

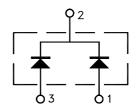
### **Features**

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

### **Package Dimensions**







- 1. YELLOW ANODE 2. COMMON CATHODE
  - 3. GREEN ANODE

Part No.	Lens

5.85

Part No.	Lens	Source Color
LTL-30EDJ	White Diffused	Yellow / Green

### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm$  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. Specification are subject to change without notice.

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# LITEON ELECTRONICS, INC.

## Property of Lite-On Only

# Absolute Maximum Ratings at Ta=25℃

Parameter	Yellow	low Green			
Power Dissipation	60	100	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	120	mA		
Continuous Forward Current	20	30	mA		
Derating Linear From 50°C	0.25	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				

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# LITEON ELECTRONICS, INC.

## Property of Lite-On Only

# Electrical Optical Characteristics at TA=25°C

Parameter	Symbol	Color	Min.	Тур.	Max.	Unit	Test Condition
		Yellow	8.7	29			$I_F = 20 \text{mA}$
Luminous Intensity	Iv	Green	8.7	29		mcd	$I_F = 20 \text{mA}$
							Note 1,4
Viewing Angle	2 θ 1/2	Yellow		30		deg	N . 2 (F) ()
Viewing Angle		Green		30		ueg	Note 2 (Fig.6)
Peak Emission	λp	Yellow		585		nm	Measurement
		Green		565		11111	@Peak (Fig.1)
Dominant Wavelength	λd	Yellow		588		nm	Note 3
		Green		569			
Spectral Line Half-Width	Δλ	Yellow		35		nm	
Spectral Line Hair-Width	Δ X	Green		30			
Forward Voltage	V <sub>F</sub>	Yellow		2.1	2.6	V	$I_F = 20 \text{mA}$
		Green		2.1	2.6		
Reverse Current	$I_R$	Yellow			100 μΑ		
		Green			100	μ11	$V_R = 5V$
Capacitance	С	Yellow		15		pF	$V_F = 0$ , $f = 1MHz$
		Green		35			

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%.

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Property of Lite-On Only

## Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

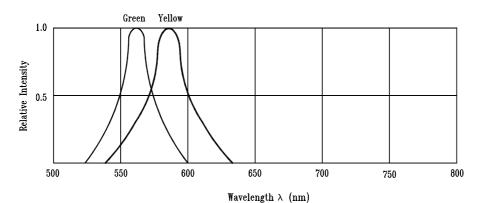


Fig.1 Relative Intensity vs. Wavelength

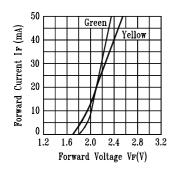


Fig.2 Forward Current vs. Forward Voltage

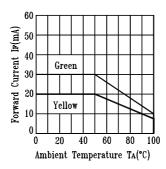


Fig.3 Forward Current Derating Curve

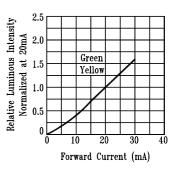


Fig.4 Relative Luminous Intensity vs. Forward Current

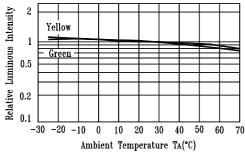


Fig.5 Luminous Intensity vs. Ambient Temperature

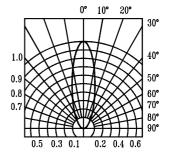


Fig.6 Spatial Distribution

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