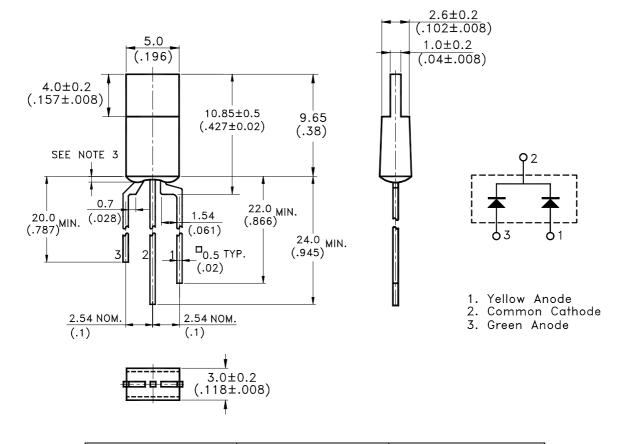
### Property of Lite-On Only

### **Features**

- \* Yellow and Green chips are matched for uniform light output.
- \* Rectangular type package.
- \* I.C. compatible
- \* Low power consumption.

## **Package Dimensions**



Part No.	Lens	Source Color
LTL-7AEDJ	White Diffused	Yellow / Green

### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25$ mm(.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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# Property of Lite-On Only

# Absolute Maximum Ratings at Ta=25℃

Parameter	Yellow	Unit				
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	-5	5°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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### Property of Lite-On Only

## Electrical Optical Characteristics at TA=25°C

Parameter	Symbol	Color	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	Yellow Green	1.7 1.7	5.6 5.6		mcd	I <sub>F</sub> = 20mA Note 1,4
Viewing Angle	2 θ 1/2	Yellow Green		120 120		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λp	Yellow Green		585 565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	Yellow Green		588 569		nm	Note 3
Spectral Line Half-Width	Δλ	Yellow Green		35 30		nm	
Forward Voltage	VF	Yellow Green		2.1 2.1	2.6 2.6	V	$I_F = 20 \text{mA}$
Reverse Current	IR	Yellow Green			100	μΑ	$V_R = 5V$
Capacitance	С	Yellow Green		15 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 stated maximum ratings refer to one chip.

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Property of Lite-On Only

## Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

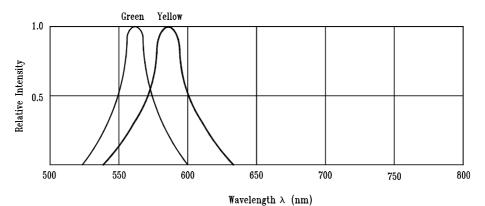


Fig.1 Relative Intensity vs. Wavelength

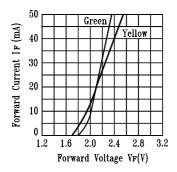


Fig.2 Forward Current vs. Forward Voltage

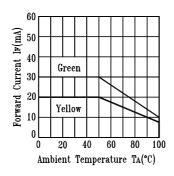


Fig.3 Forward Current **Derating Curve** 

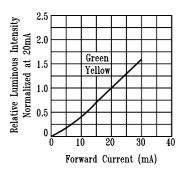


Fig.4 Relative Luminous Intensity vs. Forward Current

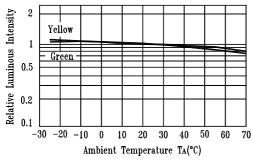


Fig.5 Luminous Intensity vs. Ambient Temperature

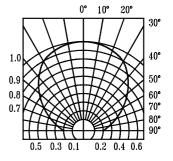


Fig.6 Spatial Distribution

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