

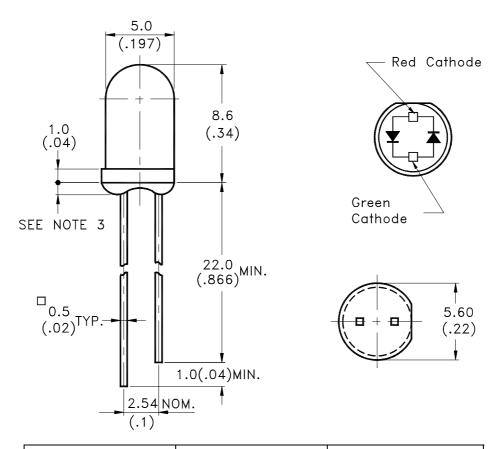
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * Red and Green chips are matched for uniform. light output.
- * T-13/4 type package.
- * Long life solid state reliability.
- * Low power consumption.
- * I.C compatible.

Package Dimensions



Part No.	Lens	Source Color
LTL-298VJ	White Diffused	Red / Green

NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 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. Specifications are subject to change without notice.

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Absolute Maximum Ratings at TA=25℃

Parameter	Red	Unit				
Power Dissipation	80	mW				
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	200	mA				
Continuous Forward Current	40 30 mA					
Derating Linear From 50°C	0.5	mA/°C				
Operating Temperature Range	-55°C to + 100°C -55°C to + 100°C 260°C for 5 Seconds					
Storage Temperature Range						
Lead Soldering Temperature [1.6mm(.063") From Body]						

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Electrical Optical Characteristics at TA=25°C

Parameter	Symbol	Color	Min.	Тур.	Max.	Unit	Test Condition	
	Iv	Red	0.7	2.5			$I_F = 20 \text{mA}$	
Luminous Intensity		Green	5.6	19		mcd	$I_F = 20 \text{mA}$ Note 1,4	
Viewing Angle	2 \theta_{1/2}	Red		50		deg	Note 2 (Fig.6)	
viewing i nigie		Green		50		40	Note 2 (Fig.0)	
Peak Emission Wavelength	λp	Red		655		nm	Measurement	
Teak Ellission wavelength		Green		565		11111	@Peak (Fig.1)	
Dominant Wavelength	λd	Red		651		nm	Note 3	
		Green		569		11111	Note 3	
Spectral Line Half-Width	Δλ	Red		24		nm		
		Green		30		11111		
Forward Voltage	V_{F}	Red		1.7	2.0	V	$I_F = 20 \text{mA}$	
	V F	Green		2.1	2.6	v	$I_F = 20 \text{mA}$	
Reverse Current	IR	Red			100	μΑ	X	
	1K	Green			100	μ11	$V_R = 5V$, Note 5	
Capacitance	С	Red		30		рF	V- 0 C 1MI	
Capacitance	C	Green		35		þī.	$V_F = 0$, $f = 1MHz$	

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, λ_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 $\pm 15\%$.
- 5. Reverse current is controlled by dice source.

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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

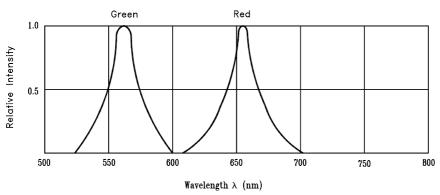
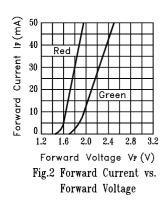
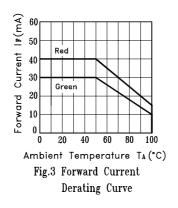
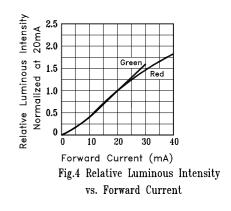
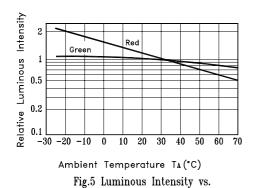


Fig.1 Relative Intensity vs. Wavelength









Ambient Temperature

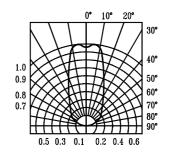


Fig.6 Spatial Distribution

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