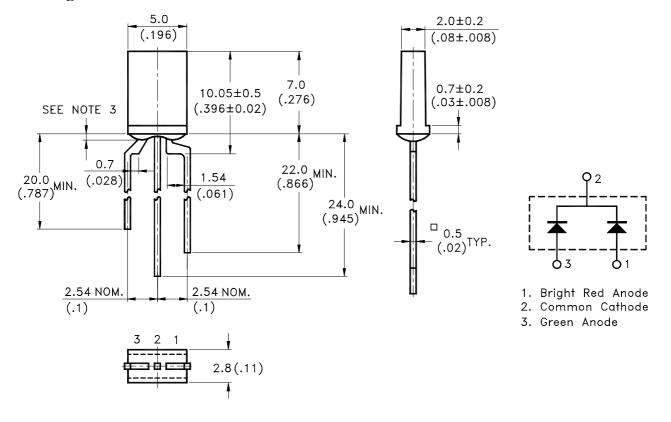
LITEON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * Bright Red 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-58EFJ	White Diffused	Bright Red / 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.

Part No.: LTL-58EFJ 4 Page: 1 of

LITEON ELECTRONICS, INC.

Property of Lite-On Only

Absolute Maximum Ratings at Ta=25℃

Parameter	Bright Red	Green	Unit		
Power Dissipation	40	100	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	60	120	mA		
Continuous Forward Current	15	30	mA		
Derating Linear From 50°C	0.2	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				

Page: 2 Part No.: LTL-58EFJ of 4

LITEON ELECTRONICS, INC.

Property of Lite-On Only

Electrical Optical Characteristics at TA=25°C

Parameter	Symbol	Color	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	Bright Red Green	0.3 1.7	0.6 5.6		mcd	I _F = 10mA Note 1,4
Viewing Angle	2 θ 1/2	Bright Red Green		100 100		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λp	Bright Red Green		697 565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	Bright Red Green		657 569		nm	Note 3
Spectral Line Half-Width	Δλ	Bright Red Green		90 30		nm	
Forward Voltage	VF	Bright Red Green		2.1 2.1	2.6 2.6	V	$I_F = 20 \text{mA}$
Reverse Current	I_R	Bright Red Green			100	μΑ	$V_R = 5V$
Capacitance	С	Bright Red Green		55 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, λ_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.

Part No.: LTL-58EFJ Page	:	3	of	4	
--------------------------	---	---	----	---	--

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

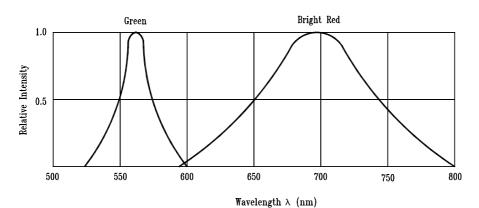
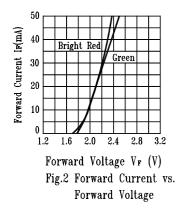
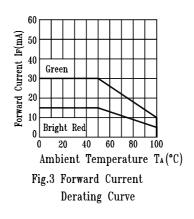


Fig.1 Relative Intensity vs. Wavelength





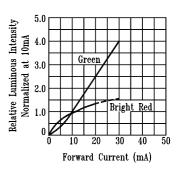
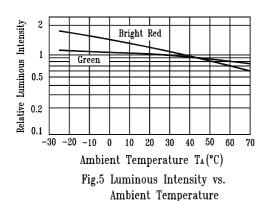


Fig.4 Relative Luminous Intensity vs. Forward Current



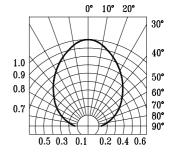


Fig.6 Spatial Distribution

Part No.: LTL-58EFJ of 4 Page: