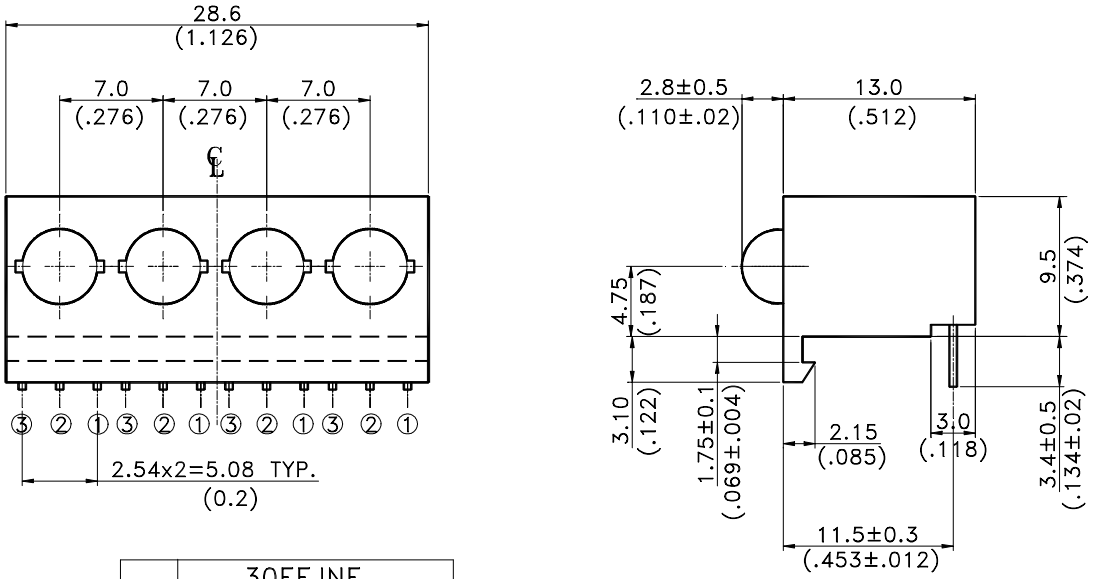
Features

* Red 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



	30EFJNF
①	Green Anode
②	Common Cathode
③	Bright Red Anode

Part No. LTL-	Lens	Source Color
30EFJNF	White Diffused	Green/Bright Red

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm(.010") unless otherwise noted.
3. The holder color is black.
4. The LED lamps are LTL-30EFJNF.

Absolute Maximum Ratings at Ta=25℃

Parameter	Green	Bright Red	Unit
Power Dissipation	100	40	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	60	mA
Continuous Forward Current	30	15	mA
Derating Linear From 50℃	0.4	0.2	mA/℃
Reverse Voltage	5	5	V
Operating Temperature Range	-55℃ to + 100℃		
Storage Temperature Range	-55℃ to + 100℃		
Lead Soldering Temperature [1.6mm(.063") From Body]	260℃ for 5 Seconds		

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	LTL-30EFJNFH52	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	Bright Red	2.5	8.7		mcd	I_F = 10mA Note 1,4
		Green	8.7	29			I_F = 10mA Note 1,4
Viewing Angle	$2\theta_{1/2}$	Bright Red Green		30		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λp	Bright Red		697		nm	Measurement
		Green		565			@Peak (Fig.1)
Dominant Wavelength	λd	Bright Red		657		nm	Note 3
		Green		569			
Spectral Line Half-Width	$\Delta\lambda$	Bright Red		90		nm	
		Green		30			
Forward Voltage	V_F	Bright Red		2.1	2.6	V	I_F = 20mA
		Green		2.1	2.6		
Reverse Current	I_R	Bright Red			100	μA	V_R = 5V
		Green			100		V_R = 5V
Capacitance	C	Bright Red		55		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 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, λd is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

4. Iv needs ±15% additionary for guaranteed limits.

Typical Electrical / Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

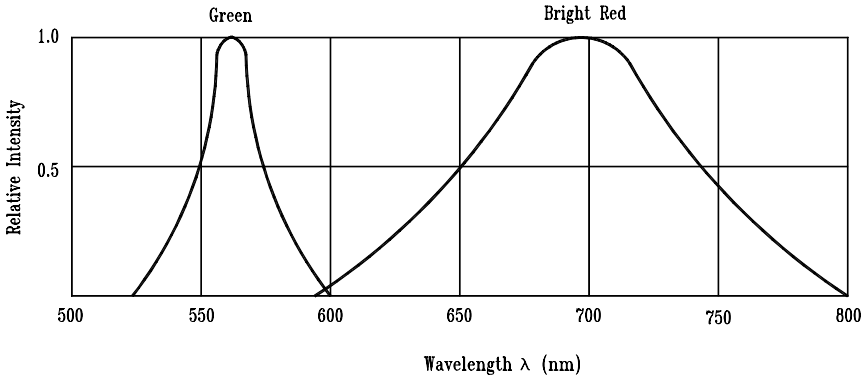


Fig.1 Relative Intensity vs. Wavelength

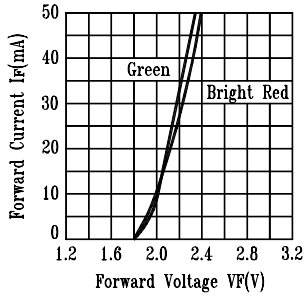


Fig.2 Forward Current vs. Forward Voltage

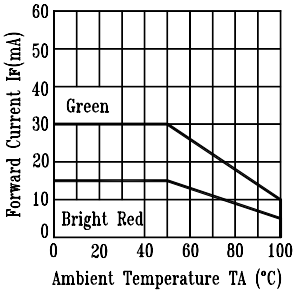


Fig.3 Forward Current Derating Curve

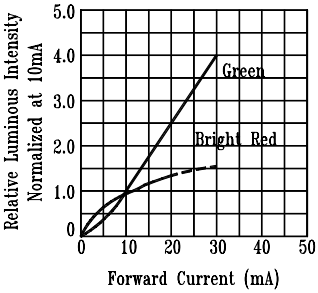


Fig.4 Relative Luminous Intensity vs. Forward Current

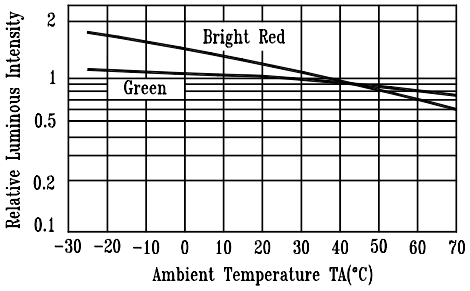


Fig.5 Luminous Intensity vs. Ambient Temperature

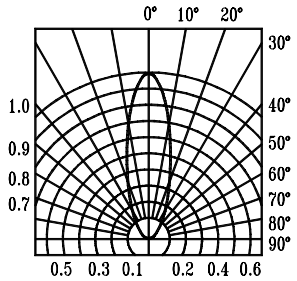


Fig.6 Spatial Distribution