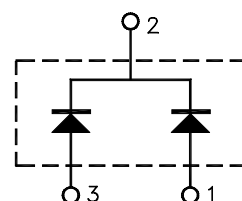
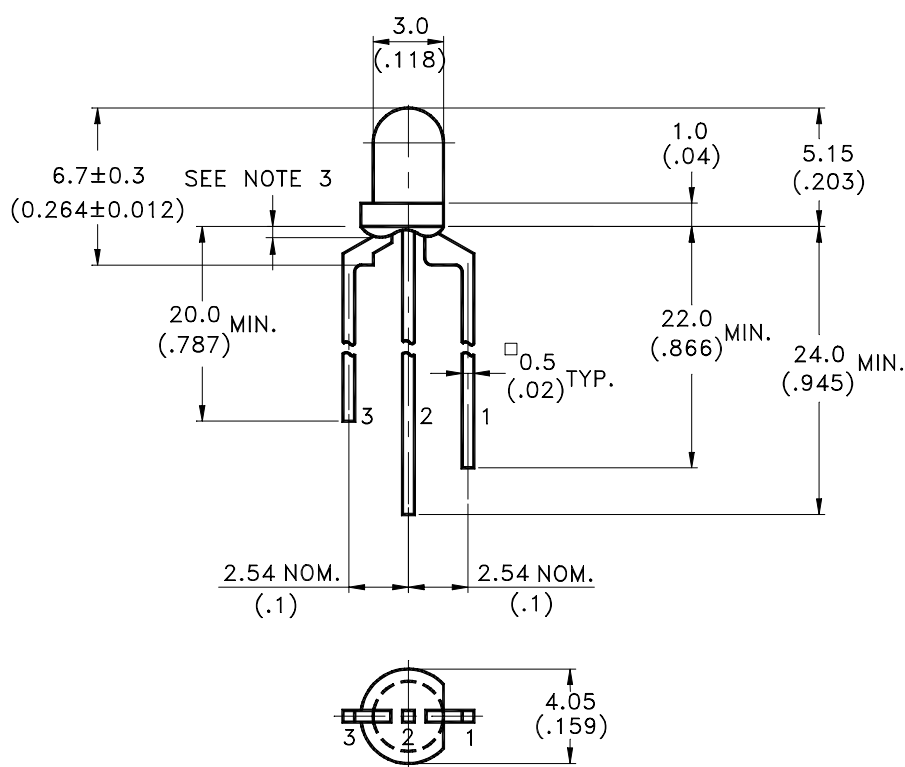


Features

- * Red Orange and green chips are matched for uniform light output.
- * Long life-solid state reliability.
- * Low power consumption.
- * I.C. compatible.

Package Dimensions



1. Red Orange Anode
2. Common Cathode
3. Green Anode

Part No.	Lens	Source Color
LTL-1BEHJ-012	White Diffused	Red Orange / Green

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}(.010")$ 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.



L I T E - O N E L E C T R O N I C S , I N C .

Property of Lite-On Only

Absolute Maximum Ratings at T_A=25°C

Parameter	Red Orange	Green	Unit
Power Dissipation	100	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	120	mA
Continuous Forward Current	30	30	mA
Derating Linear From 50°C	0.4	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		

Electrical Optical Characteristics at T_A=25°C

Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _V	Red Orange Green	5.6 5.6	19 19		mcd	I _F = 20mA Note 1,4
Viewing Angle	2 θ _{1/2}	Red Orange Green		75 75		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ _p	Red Orange Green		630 565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ _d	Red Orange Green		621 569		nm	Note 3
Spectral Line Half-Width	Δ λ	Red Orange Green		40 30		nm	
Forward Voltage	V _F	Red Orange Green		2.0 2.1	2.6 2.6	V	I _F = 20mA
Reverse Current	I _R	Red Orange Green			100	μ A	V _R = 5V
Capacitance	C	Red Orange Green		20 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. θ_{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 I_V guarantee should be added ±15% .

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

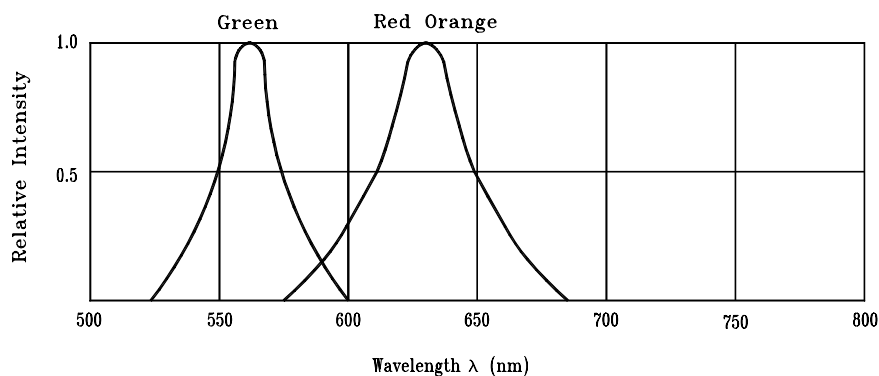


Fig.1 Relative Intensity vs. Wavelength

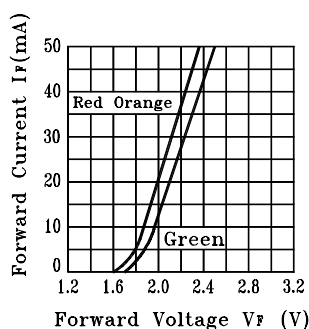


Fig.2 Forward Current vs. Forward Voltage

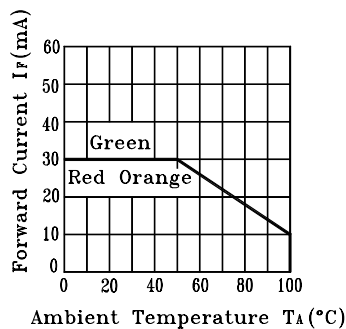


Fig.3 Forward Current Derating Curve

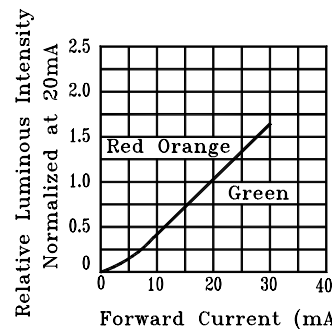


Fig.4 Relative Luminous Intensity vs. Forward Current

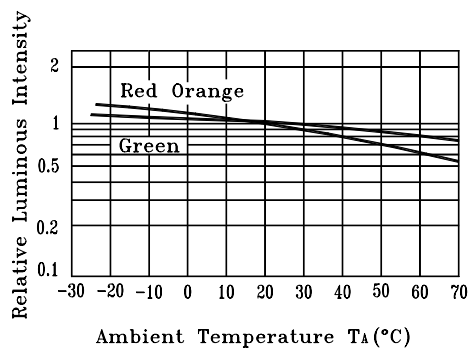


Fig.5 Luminous Intensity vs. Ambient Temperature

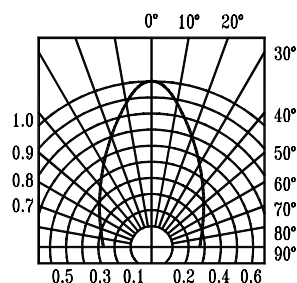
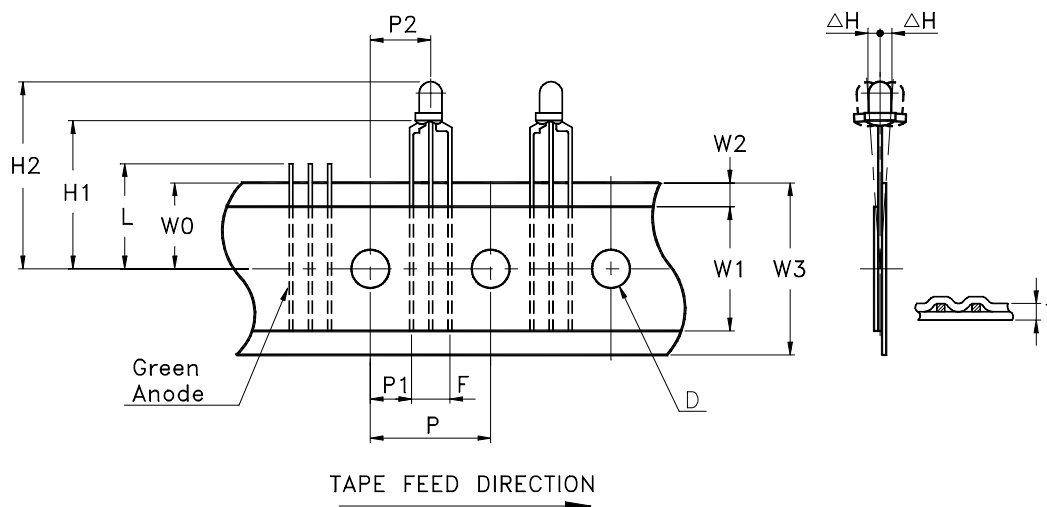


Fig.6 Spatial Distribution

Features

- * Compatible with radial lead automatic insertion equipment.
- * Most radial lead plastic lead lamps available packaged in tape and reel.
- * 3 leads with 2.54mm (0.1") straight lead spacing available.
- * Reel packaging simplifies handling and testing.

Package Dimensions



Item	Symbol	Specification			
		Minimum		Maximum	
		mm	inch	mm	inch
Tape Feed Hole Diameter	D	3.8	0.149	4.2	0.165
Component Lead Pitch	F	4.8	0.188	5.8	0.228
Front to Rear Deflection	ΔH	--	--	2.0	0.078
Feed Hole to Bottom of Component	H1	21.5	0.846	22.5	0.886
Feed Hole to Overall Component Height	H2	26.3	1.035	27.8	1.094
Lead Length after Component Height	L	W0		11.0	0.433
Feed Hole Pitch	P	12.4	0.488	13.0	0.511
Lead Location	P1	3.15	0.124	4.55	0.179
Center of Component Location	P2	5.05	0.198	7.65	0.301
Total Taped Thickness	T	--	--	0.90	0.035
Feed Hole Location	W0	8.5	0.334	9.75	0.384
Adhesive Tape Width	W1	12.5	0.492	13.5	0.531
Adhesive Tape Position	W2	0	0	3.0	0.118
Tape Width	W3	17.5	0.689	19.0	0.748