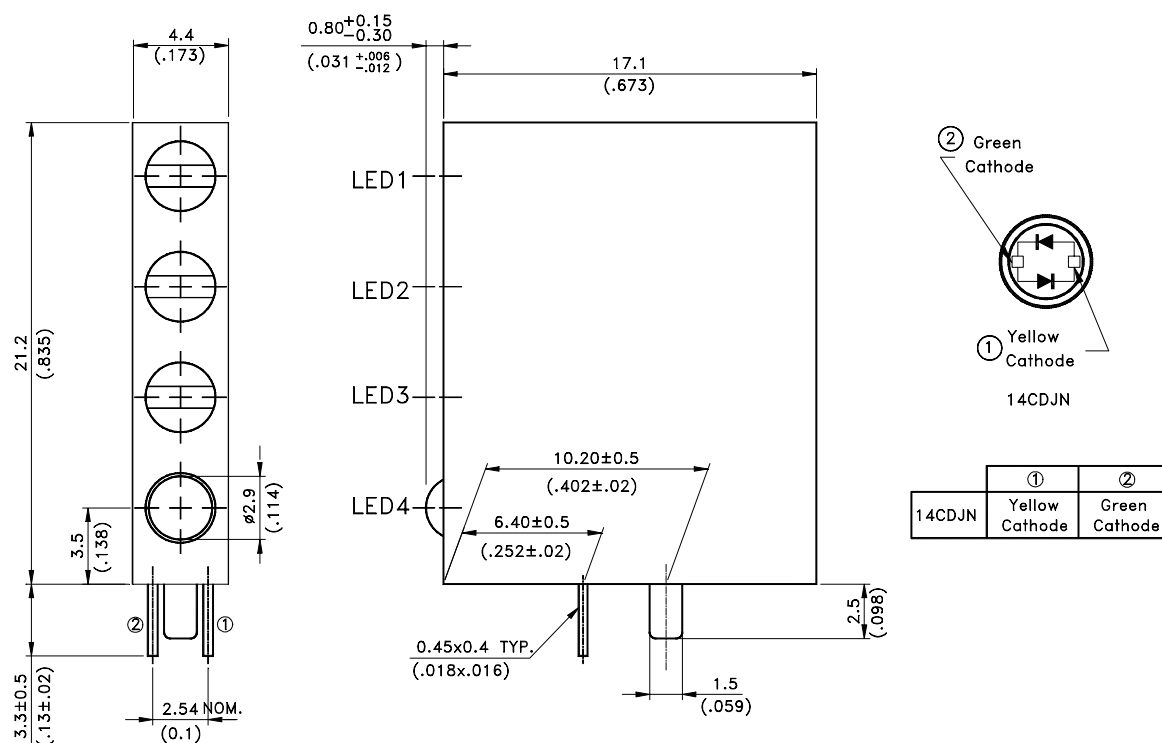


Features

- * Designed for ease in circuit board assembly.
- * Black case enhance contrast ratio.
- * Solid state light source.
- * Reliable and rugged.

Package Dimensions



Part No.	Lens	Source Color
LTL-14CDJN	White Diffused	Green/Yellow

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}(.010")$ unless otherwise noted.
3. The holder color is black.
4. The LED1~ LED3 are empty.
The LED4 lamp is LTL-14CDJN .



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 Ta=25°C

Parameter	Green	Yellow	Unit
Power Dissipation	100	60	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	80	mA
Continuous Forward Current	30	20	mA
Derating Linear From 50°C	0.4	0.25	mA/°C
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 Ta=25°C

Parameter	Symbol	LTL-14CDJNH36P	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	Green Yellow	3.7 2.5	12.6 8.7		mcd	I _F = 20mA Note 1,4
Viewing Angle	2θ _{1/2}	Green Yellow		80		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ _p	Green Yellow		565 585		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λ _d	Green Yellow		569 588		nm	Note 3
Spectral Line Half-Width	Δλ	Green Yellow		30 35		nm	
Forward Voltage	V _F	Green Yellow		2.1 2.1	2.6 2.6	V	I _F = 20mA
Reverse Current	I _R	Green Yellow			100	μA	V _R = 5V, Note 5
Capacitance	C	Green Yellow		35 15		pF	V _F = 0, f = 1MHz

Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE 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. I_v needs ±15% additional for guaranteed limits.

5. Reverse current is controlled by dice source.

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

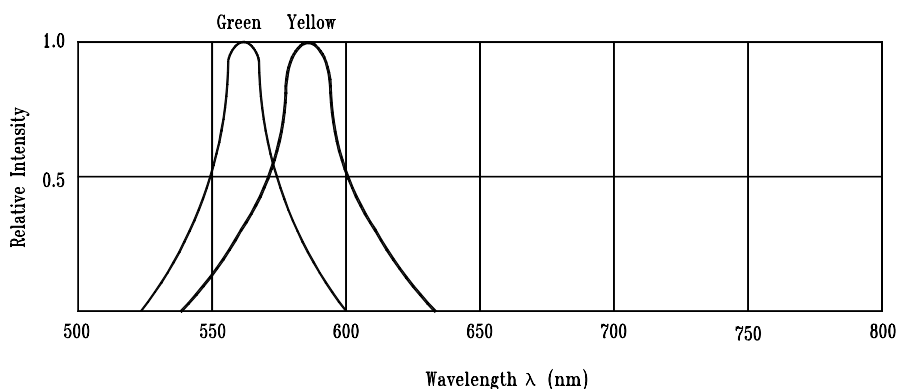


Fig.1 Relative Intensity vs. Wavelength

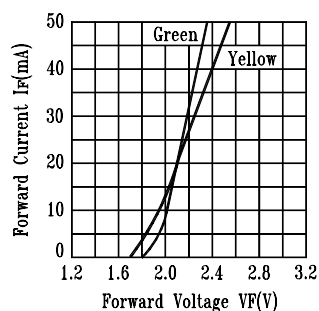


Fig.2 Forward Current vs. Forward Voltage

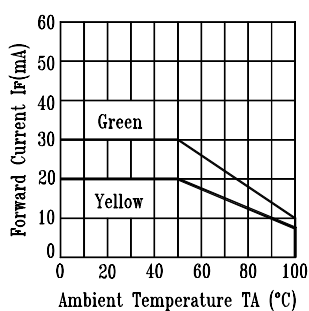


Fig.3 Forward Current Derating Curve

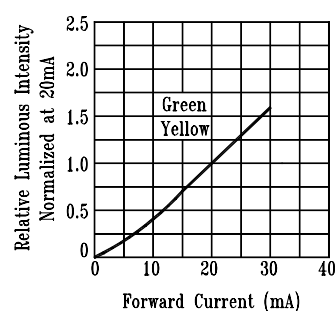


Fig.4 Relative Luminous Intensity vs. Forward Current

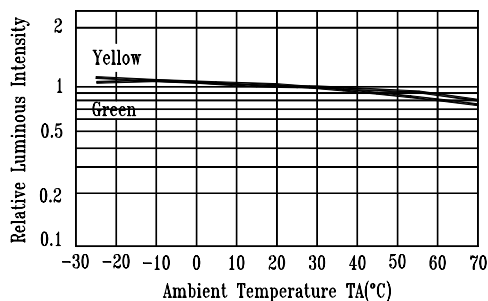


Fig.5 Luminous Intensity vs. Ambient Temperature

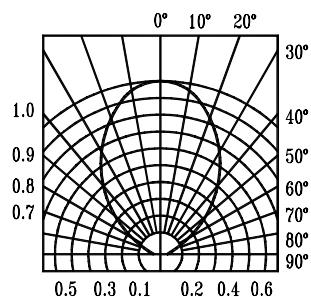


Fig.6 Spatial Distribution