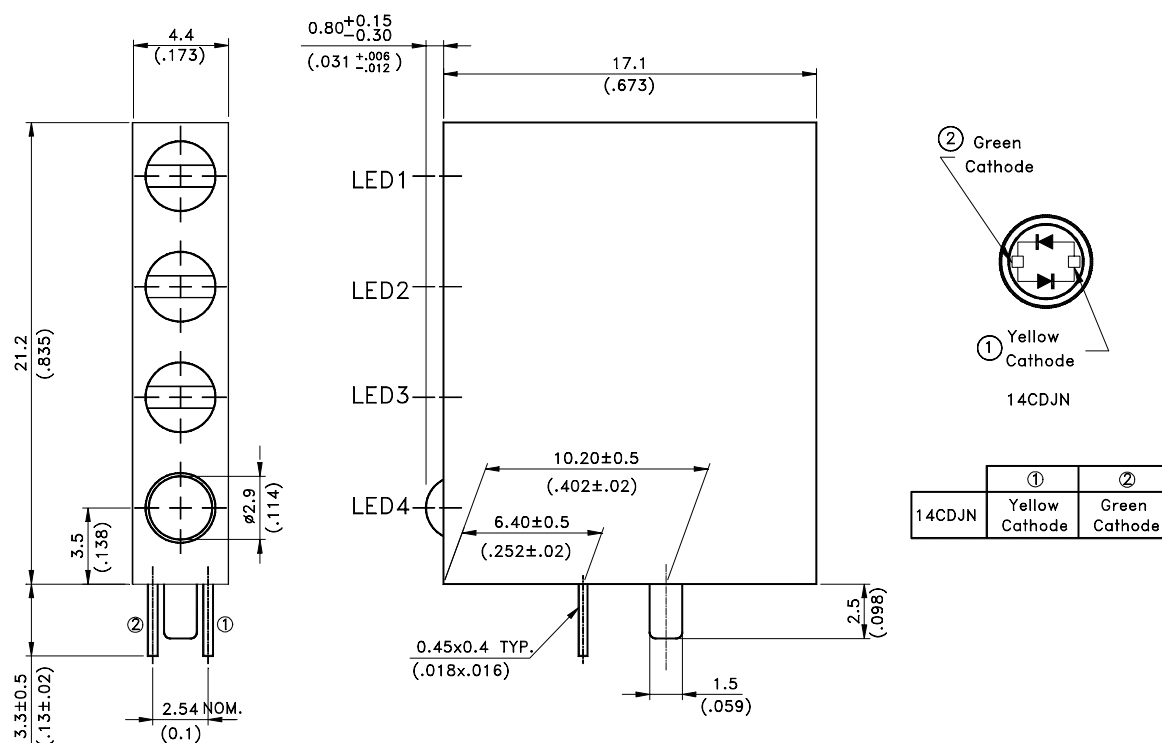


Features

- * 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.

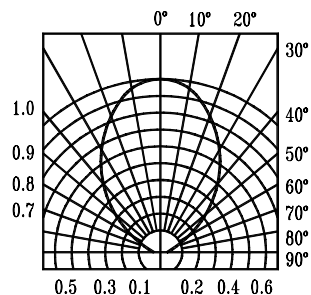
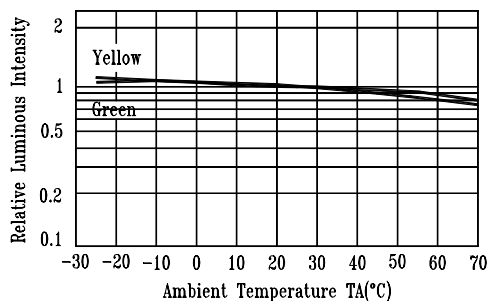
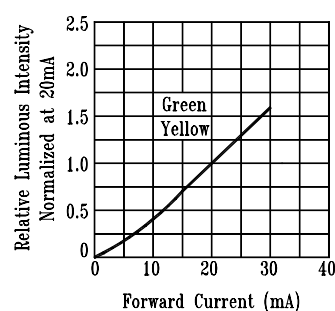
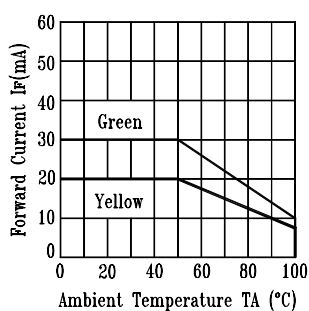
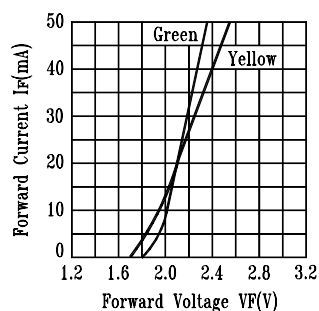
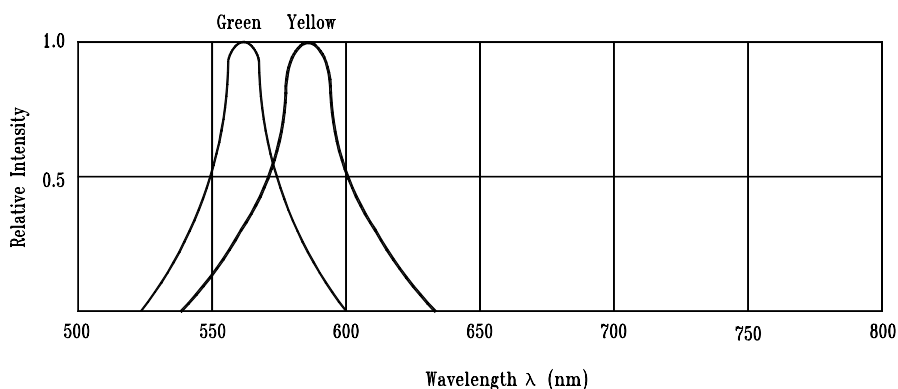
3. The dominant wavelength, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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)



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