Features

* Yellow and Green chips are matched for uniform light output.
* T-1 type package.
* Long life solid state reliability.
* Low power consumption.
* I.C. compatible.

Package Dimensions
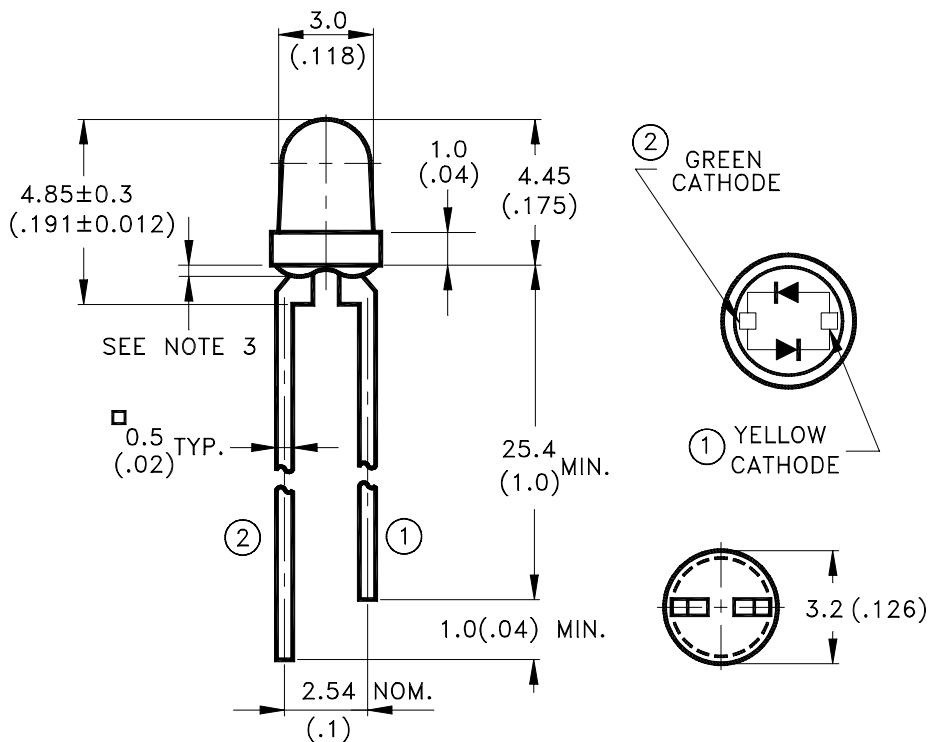
Part No.	Lens	Source Color
LTL-14CDJ	White Diffused	Yellow / Green

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. Specifications are subject to change without notice.

Absolute Maximum Ratings at T_A=25℃

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

Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	Yellow Green	2.5 3.7	8.7 12.6		mcd	I$_F$ = 20mA I$_F$ = 20mA Note 1,4
Viewing Angle	2$\theta_{1/2}$	Yellow Green		80 80		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λp	Yellow Green		585 565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	Yellow Green		588 569		nm	Note 3
Spectral Line Half-Width	$\Delta\lambda$	Yellow Green		35 30		nm	
Forward Voltage	V$_F$	Yellow Green		2.1 2.1	2.6 2.6	V	I$_F$ = 20mA
Reverse Current	I$_R$	Yellow Green			100	μA	V$_R$ = 5V Note 5
Capacitance	C	Yellow Green		15 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, λd is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

4. The Iv guarantee should be added ±15%.

5. Reverse current is controlled by dice source.

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

Green   Yellow

Relative Intensity

1.0

0.5

500   550   600   650   700   750   800
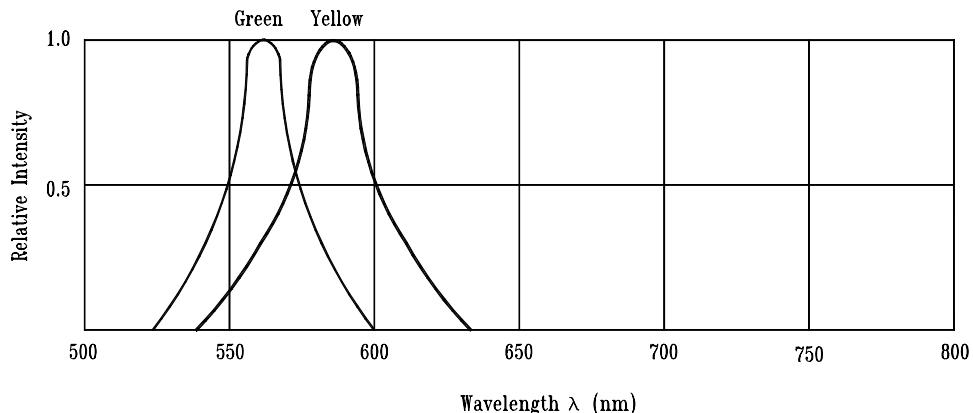
Wavelength λ (nm)

Fig.1 Relative Intensity vs. Wavelength

Forward Current IF (mA)

Green
Yellow

50
40
30
20
10
0

1.2 1.6 2.0 2.4 2.8 3.2

Forward Voltage VF(V)
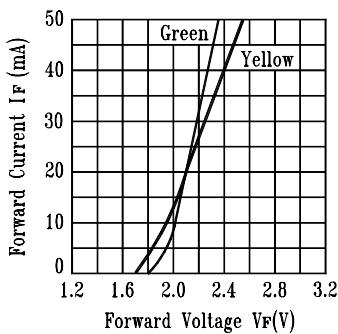
Fig.2 Forward Current vs.
Forward Voltage

Forward Current IF(mA)

Green

Yellow

60
50
40
30
20
10
0

0 20 40 60 80 100

Ambient Temperature TA(°C)
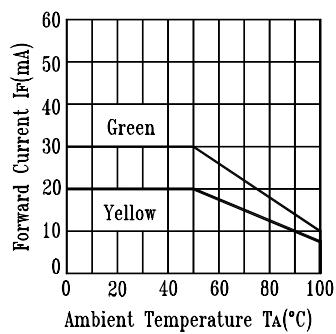
Fig.3 Forward Current
Derating Curve

Relative Luminous Intensity
Normalized at 20mA

2.5
2.0
1.5
1.0
0.5
0

Green
Yellow

0 10 20 30 40
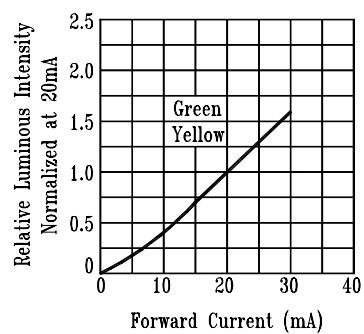
Forward Current (mA)

Fig.4 Relative Luminous Intensity
vs. Forward Current

Relative Luminous Intensity

2

1

0.5

0.2

0.1

Yellow

Green

-30 -20 -10 0 10 20 30 40 50 60 70

Ambient Temperature TA(°C)
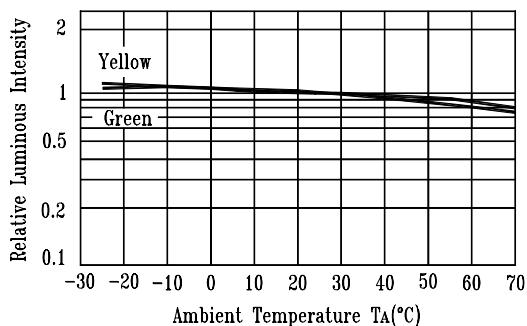
Fig.5 Luminous Intensity vs.
Ambient Temperature

0° 10° 20°
30°
40°
50°
60°
70°
80°
90°

1.0
0.9
0.8
0.7

0.5 0.3 0.1   0.2 0.4 0.6
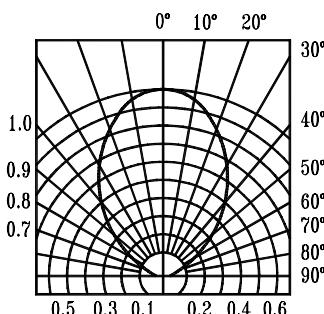
Fig.6 Spatial Distribution

Part No. : LTL-14CDJ

BNS-OD-C131/A4

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