LEDTRONICS, INC.®

23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

LD200-0CW-30X70

Cool White

5x4mm, Oval, 7mm Height
30° on Y axis and 70° on X axis
viewing angle

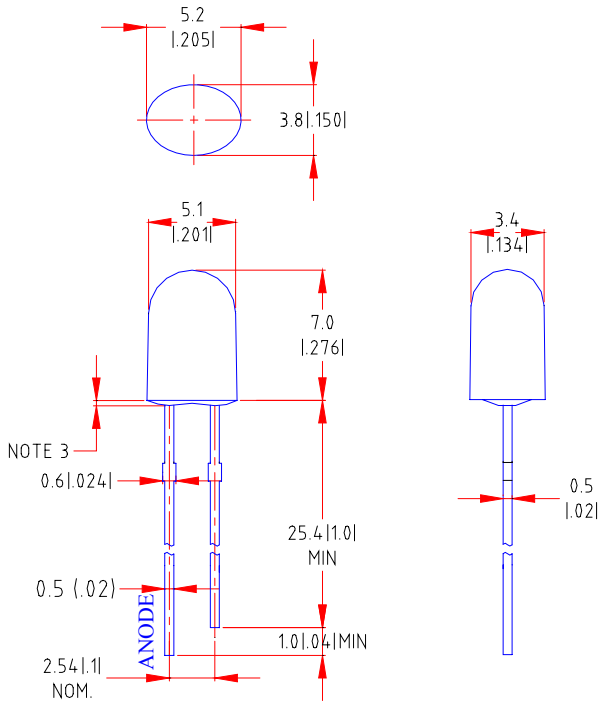
DWG BY: LL / MM 02-21-07
CHK BY: PL 02-26-07
QA: __ __-__-__
MFG: __ __-__-__
REVISION LTR: - 02-21-07

LEDTRONICS, INC.®
23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

Features:

- High intensity
- 5×4mm diameter oval package
- Tinned leads
- Pb-free

Package Dimensions:



Part No.	Chip Material	Lens Color	Emission Color
LD200-0CW-30X70	InGaN	Water Clear	White

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±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
6. Precautions for ESD: Static electricity and surge can damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

LEDTRONICS, INC.®
23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

Absolute Maximum Ratings at Ta=25ºC

Parameter	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 50℃	0.4	mA/℃
Reverse Voltage	5	V
Electrostatic Discharge (ESD)	150	V
Operating Temperature Range	-20ºC to +80ºC	
Storage Temperature Range	-30ºC to +100ºC	
Lead Soldering Temperature [4mm (.157") From Body]	260ºC for 5 Seconds	

Electrical Optical Characteristics at Ta=25ºC

Parameter	Symbol		Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V		3000	4000	---	mcd	I_F=20mA (Note 1)
Viewing Angle	$2\theta_{1/2}$	X(Axis)	---	70	---	Deg	(Note 2)
		Y(Axis)	---	30	---		
Forward Voltage	V_F		---	3.2	4.0	V	I_F=20mA
Reverse Current	I_R		---	---	50	μA	V_R=5V

Color Rank	x	y	x	y	x	y	x	y
LTC & LTD	0.270	0.285	0.288	0.250	0.305	0.275	0.295	0.325

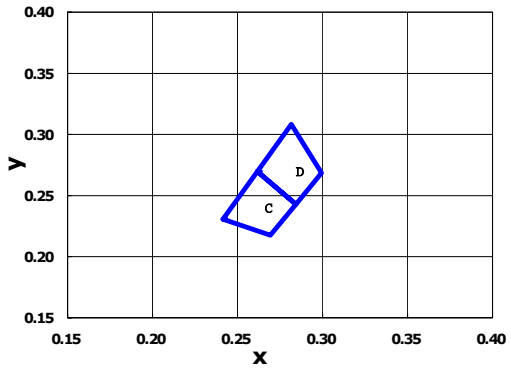
Notes:

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. Forward voltage measurement allowance is ±0.1V
4. Luminous Intensity Measurement Allowance is ±10%.

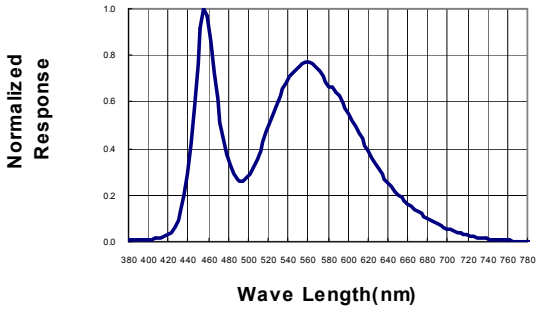
LEDTRONICS, INC.®
23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

Typical Electrical / Optical Characteristics Curves
(25ºC Ambient Temperature Unless Otherwise Noted)

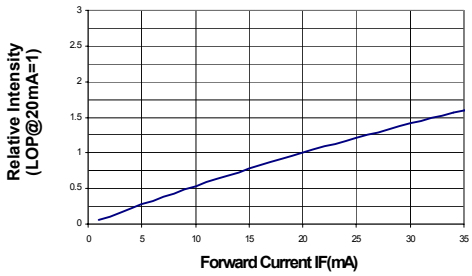
CIE 1931 Chromaticity Diagram



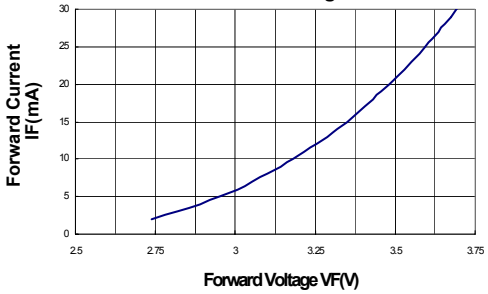
Spectral Radiance



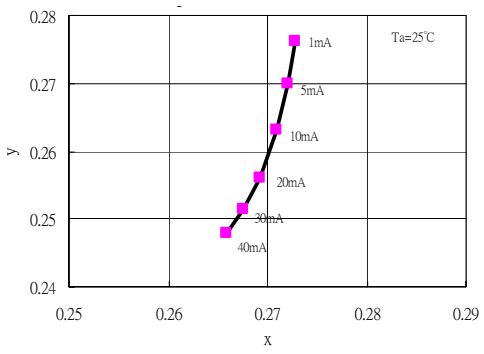
Relative Luminous Intensity vs Forward Current



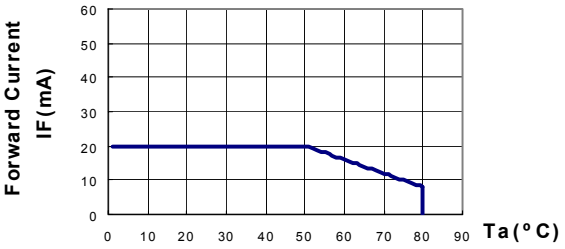
Forward Current vs Forward Voltage



Forward Current VS. Chromaticity coordinate



Forward Current Derating Curve



Beam Pattern