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

L200CWY6KH-15D

Super Yellow

5mm, Flanged Cylindrical, 8.6mm Height
16° viewing angle

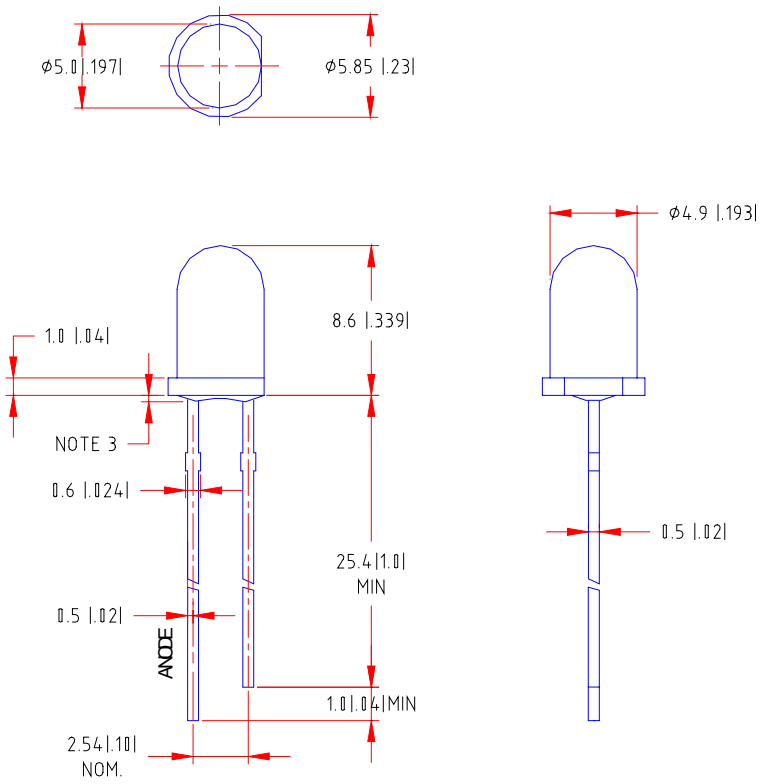
DWG BY: LL / GP 03-07-07
CHK BY: PL 03-08-07
QA: __ __-__-__
MFG: __ __-__-__
REVISION LTR: - 03-07-07

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
- Standard 5mm diameter package
- Tinned leads
- Pb-free

Package Dimensions:



Part No.	Chip Material	Lens Color	Emission Color
L200CWY6KH-15D	AlGaInP	Water Clear	Super Yellow

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.

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	90	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	35	mA
Derating Linear From 50ºC	0.4	mA/ºC
Reverse Voltage	5	V
Operating Temperature Range	-30ºC to +80ºC	
Storage Temperature Range	-40ºC 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	6800	---	mcd	I_F=20mA (Note 1)
Viewing Angle	$2\theta_{1/2}$	---	16	---	Deg	(Note 2)
Peak Emission Wavelength	λp	587	592	597	nm	I_F=20mA
Dominant Wavelength	λd	584	590	596	nm	I_F=20mA (Note 3)
Spectral Line Half-Width	λ	---	18	---	nm	I_F=20mA
Forward Voltage	V_F	---	2.2	2.7	V	I_F=20mA
Reverse Current	I_R	---	---	50	μA	V_R=5V

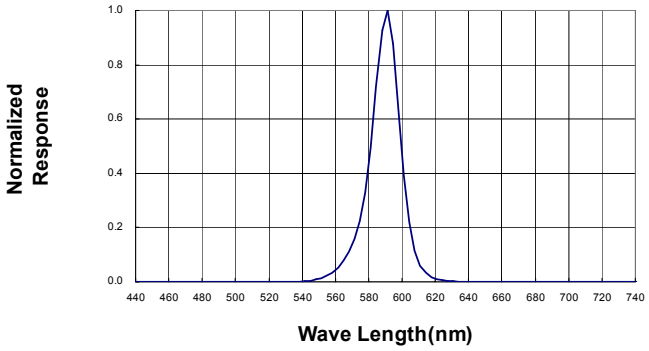
Notes:

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. The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Forward voltage measurement allowance is ±0.1V
5. Luminous Intensity Measurement Allowance is ± 10%

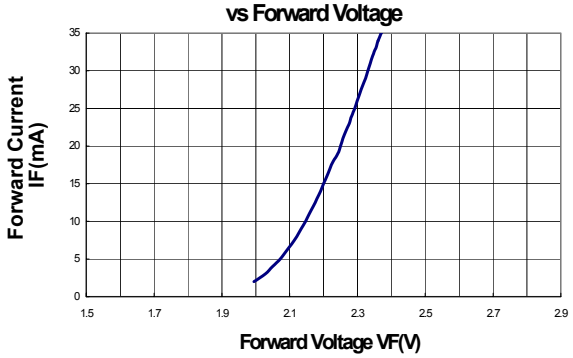
LEDTRONICS, INC.®
23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

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

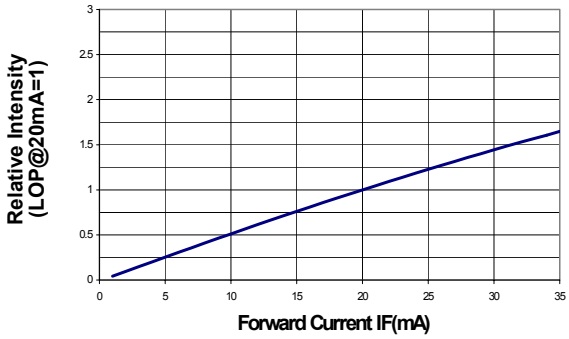
Spectral Radiance (Peak @ 590nm)



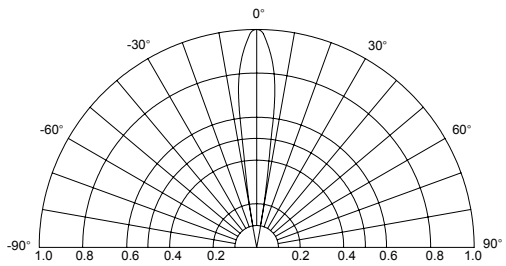
Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current

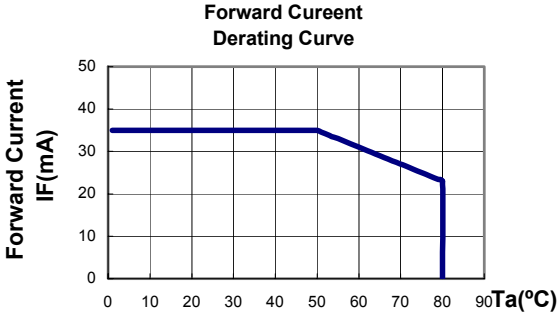


Beam Pattern



Relative Intensity (LOP@MAX=1)

Forward Cureent Derating Curve



Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

LEDtronics:

LENS HL852-WC RPLB-0201-28V BF3127-0CW-120A F206CY6-0008 FF200-0AG-028B SMR12RG4-TR BF3127-0CW-028B FF200-0CW-006B SM110TG4-TR SML13RGB2KH-TR BF3127-0UR-028B FF200-0CW-028B L200TR5B LTP005-001 RPLH16-02-01-02 UTL1835-1AG 41PCT170TWYG4B RPLH16-02-06-02 RPLH16-24-06-02 SML12RG4H-TR 21RP070TWYG4B BF3127-0AG-120A FF120-OUR-005P HLDR-HLD2220 LTP005-0CW-301 PC120TG4-140 RPLH16-01-01-02 5SB206CY6-0001 B3127CG5-0003 BF321-0AG-024B