

# LDF200CWY3KH

Super Yellow

5mm, Cylindrical, 6.8mm Height  
90° viewing angle

DWG BY:  
BL / GP  
01-05-07

CHK BY:  
PL  
07-05-07

QA:  
\_\_\_\_\_  
\_\_-\_\_-\_\_

MFG:  
\_\_\_\_\_  
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REVISION LTR: -

07-05-07

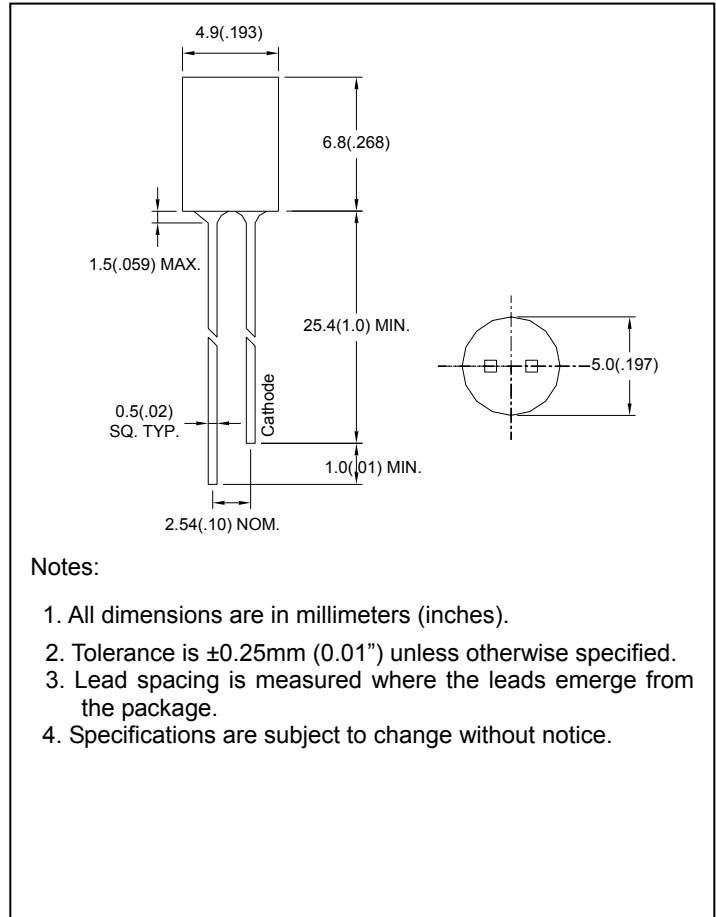
● **Features:**

1. Chip material: AlGaInP/GaAs
2. Emitted color : Super Yellow
3. Lens Appearance : Water Clear
4. Cylindrical shape.
5. Low power consumption.
6. Compatible
7. Long life solid state reliability.
8. This product is RoHS compliant.

● **Applications:**

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● **Package dimensions**



● **Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	80	mW
Forward Current	I <sub>F</sub>	30	mA
Peak Forward Current* <sup>1</sup>	I <sub>FP</sub>	150	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	Topr	-40°C~80°C	
Storage Temperature	Tstg	-40°C~85°C	
Soldering Temperature	Tsol	260°C (for 5 seconds)	

\*<sup>1</sup>Condition for I<sub>FP</sub> is pulse of 1/10 duty and 0.1msec width.

● **Electrical and optical characteristics(Ta=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F=20mA$	-	2.1	2.6	V
Luminous Intensity	$I_v$	$I_F=20mA$	-	800	-	mcd
Reverse Current	$I_R$	$V_R=5V$	-	-	100	$\mu A$
Peak Wave Length	$\lambda_p$	$I_F=20mA$	-	596	-	nm
Dominant Wave Length	$\lambda_d$	$I_F=20mA$	586	593	594	nm
Spectral Line Half-width	$\Delta \lambda$	$I_F=20mA$	-	19	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	-	90	-	deg
Radiant Intensity		$I_F=20mA$	-	-	-	$\mu W/sr$
Chromaticity Coordinates	X	$I_F=20mA$	-	0.60	-	
	Y		-	0.40	-	

● **Typical electro-optical characteristics curves**

Fig.1 Relative intensity vs. Wavelength

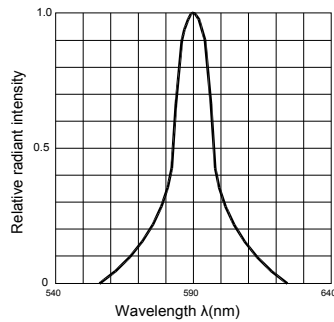


Fig.2 Forward current derating curve vs. Ambient temperature

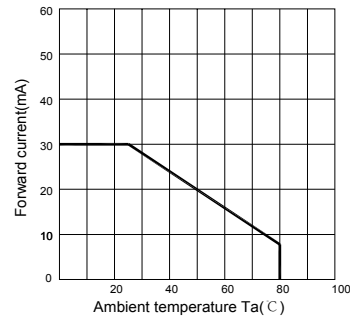


Fig.3 Forward current vs. Forward voltage

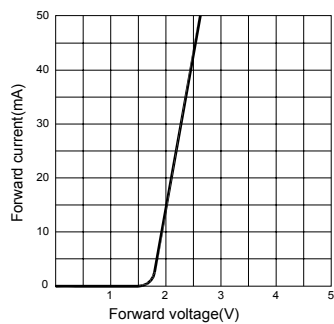


Fig.4 Relative luminous intensity vs. Ambient temperature

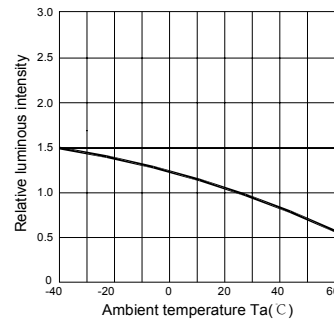


Fig.5 Relative luminous intensity vs. Forward current

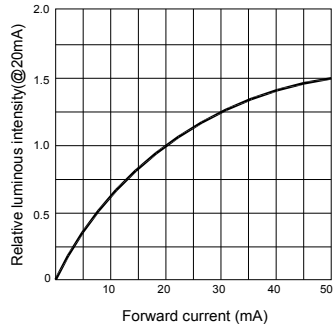
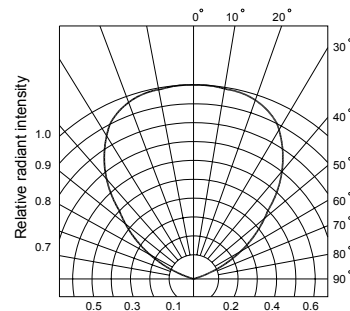


Fig.6 Radiation diagram



● **Bin Limits**

1. Intensity Bin Limits (At  $I_F=20\text{mA}$ )

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
T	280	550
U	410	820
V	620	1230
W	930	1840
X	1390	2760
:	:	:

2. Color Bin Limits (At  $I_F=20\text{mA}$ ) : Dominant Wave Length  $\lambda_d(\text{nm})$

Bin Code	Min. (nm)	Max. (nm)
5	587	591
6	589	593
7	591	595

