

LD120CWY3KH

Pure Yellow

3mm, Dome, 4.1mm Height
40° viewing angle

DWG BY:
BL/ GP
08-25-06

CHK BY:
PL
08-30-06

QA:
0_-_-06

MFG:
_ _ _ _

REVISION LTR: -
08-30-06

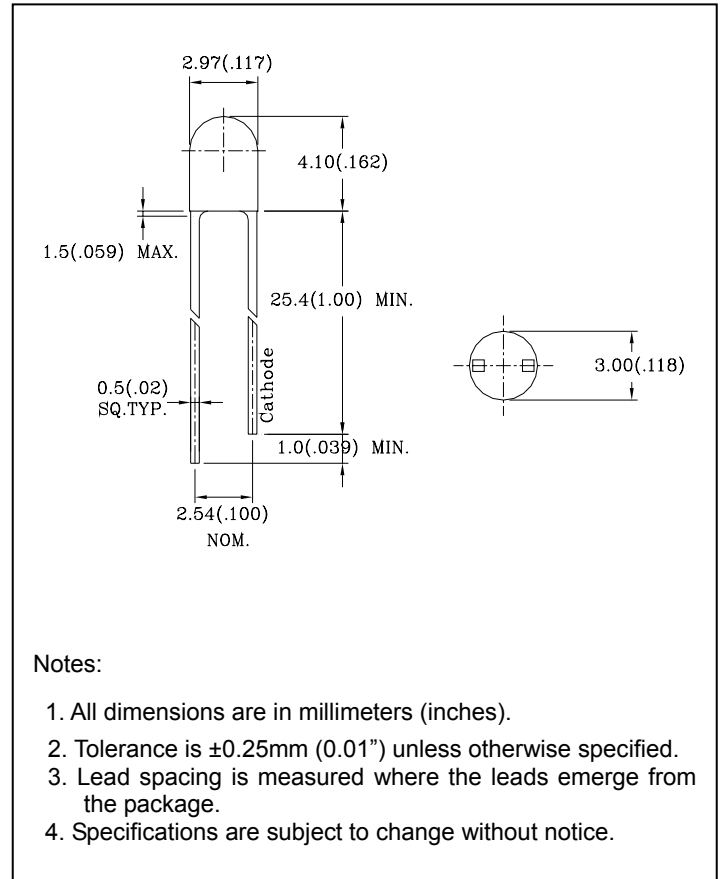
● **Features:**

1. Chip material: AlGaInP/GaAs
2. Emitted color : Pure Yellow
3. Lens Appearance : Water Clear
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 3mm diameter package.
9. 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 _F	30	mA
Peak Forward Current* ¹	I _{FP}	150	mA
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-40°C~80°C	
Storage Temperature	Tstg	-40°C~85°C	
Soldering Temperature	Tsol	260°C(for 5 seconds)	

*¹Condition for I_{FP} 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	-	2.0	2.6	V
Luminous Intensity	I _v	I _F =20mA	500	1000	-	mcd
Reverse Current	I _R	V _R =5V	-	-	100	μA
Peak Wave Length	λ _p	I _F =20mA	594	596	599	nm
Dominant Wave Length	λ _d	I _F =20mA	589	591	595	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	18	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	50	-	deg
Radiant Intensity		I _F =20mA	-	3000	-	μW/sr
Chromaticity Coordinates	X	I _F =20mA	-	0.59	-	
	Y		-	0.40	-	

● **Typical electro-optical characteristics curves**

Fig.1 Relative intensity vs. Wavelength

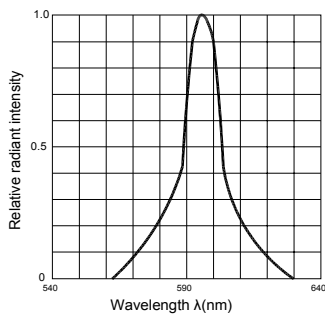


Fig.2 Forward current derating curve vs. Ambient temperature

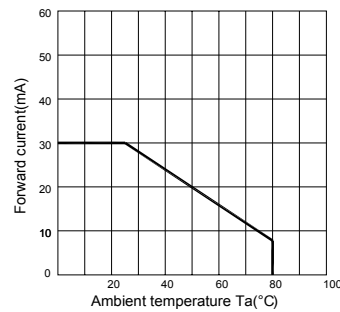


Fig.3 Forward current vs. Forward voltage

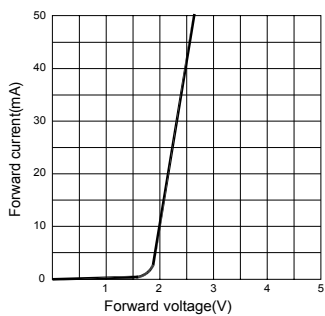


Fig.4 Relative luminous intensity vs. Ambient temperature

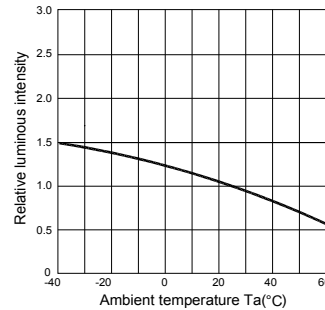


Fig.5 Relative luminous intensity vs. Forward current

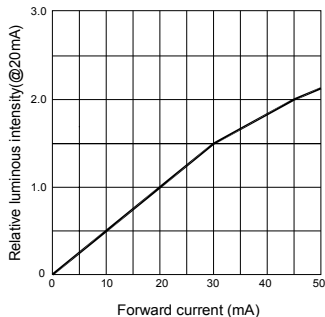
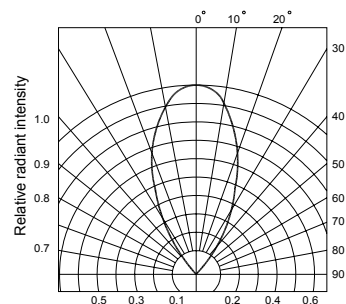


Fig.6 Radiation diagram



● **Bin Limits**

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

Bin Code	Min. (mcd)	Max. (mcd)
-	-	-
U	410	820
V	620	1230
W	930	1840
-	-	-

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

Bin Code	Min. (nm)	Max. (nm)
6	589	593
7	591	595
8	593	597

3. V_F Bin Limits (At $I_F=20\text{mA}$)

Bin Code	Min. (v)	Max. (v)
B	1.75	2.05
C	1.95	2.25
D	2.15	2.45
E	2.35	2.65

