



LOU4155

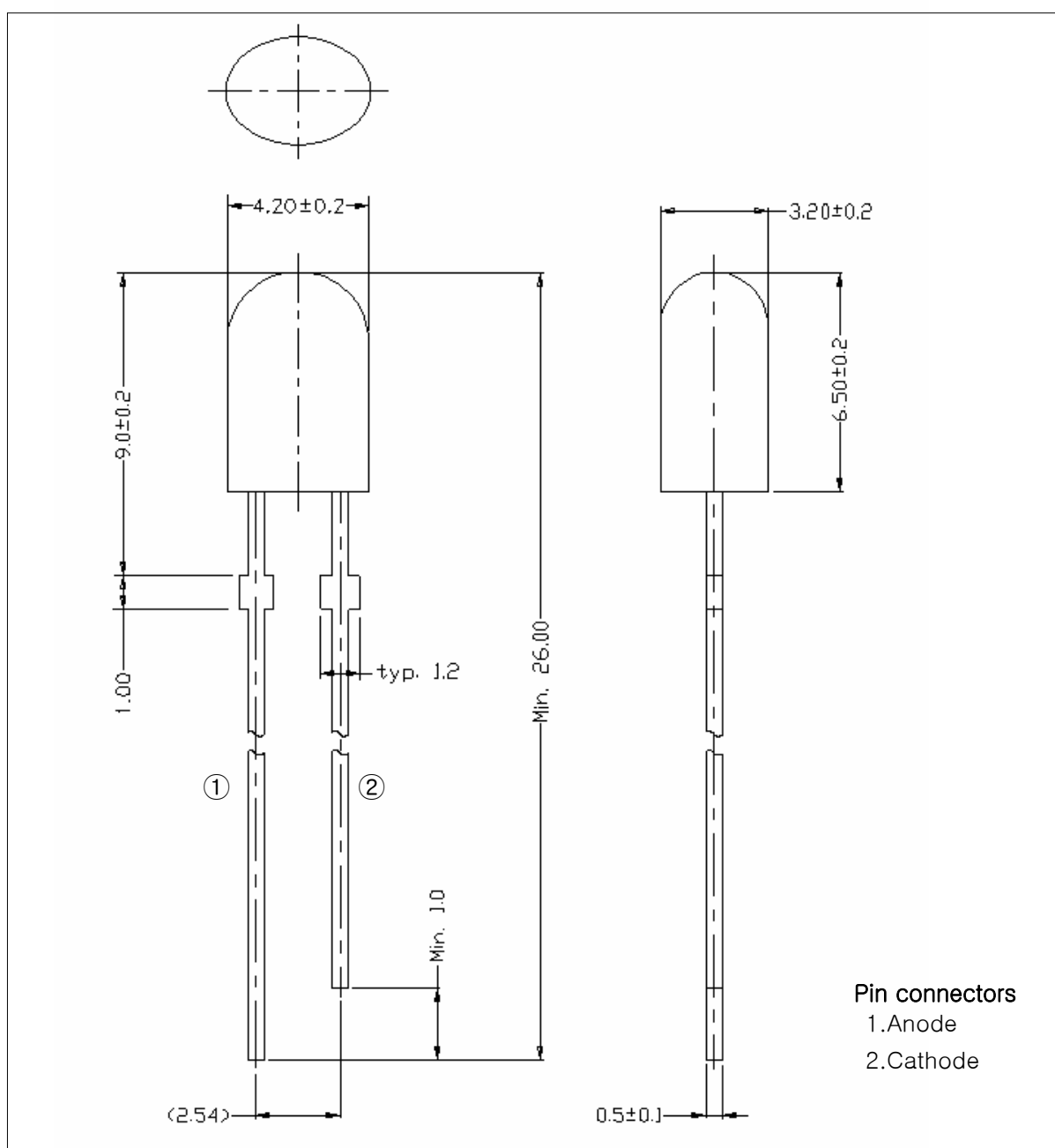
Ultra Brightness LED Lamp

■ Features

- Colored transparency lens type
- $\phi 4\text{mm}$ Oval plastic mold type
- High Luminosity

■ Outline dimensions

(unit : mm)



Different and Better

■ Absolute Maximum Ratings

(Ta=25 °C)

Characteristic	Symbol	Ratings	Unit
Power dissipation	P_D	75	mW
Forward Current	I_F	25	mA
* ¹ Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-25 ~ +85	°C
Storage Temperature	T_{stg}	-30 ~ +100	°C
* ² Soldering Temperature	T_{sol}	260°C for 3 seconds	

*1.Duty ratio 1/10, Pulse Width 10msec

*2.Keep the distance more than 2.0mm from PCB to the bottom of LED package

■ Electrical – Optical Characteristics

(Ta=25 °C)

Characteristic	Symbol	Test Condition		Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$		–	2.0	2.4	V
Dominant Wavelength	λ_d	$I_F = 20\text{mA}$		619	623	626	nm
Spectrum Bandwidth	$\Delta\lambda$	$I_F = 20\text{mA}$		–	20	–	nm
Reverse Current	I_R	$V_R = 5\text{V}$		–	–	10	Ua
* ³ Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	x	–	±55	–	deg
			y	–	±30	–	deg

*3. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

■ Luminous intensity ranks

(Ta=25°C)

Iv RANK	Test Condition	Min.	Typ.	Max.	Unit
L	I _F = 20mA	300	–	420	mcd
M		420	–	600	
N		600	–	850	
O		850	–	1200	

* Luminous intensity is tested at a current pulse duration of 25 ms and an accuracy of $\pm 11\%$.

Intensity Measured : 0.01sr(CIE. LED_B)

■ Characteristic Diagrams

Fig. 1 $I_F - V_F$

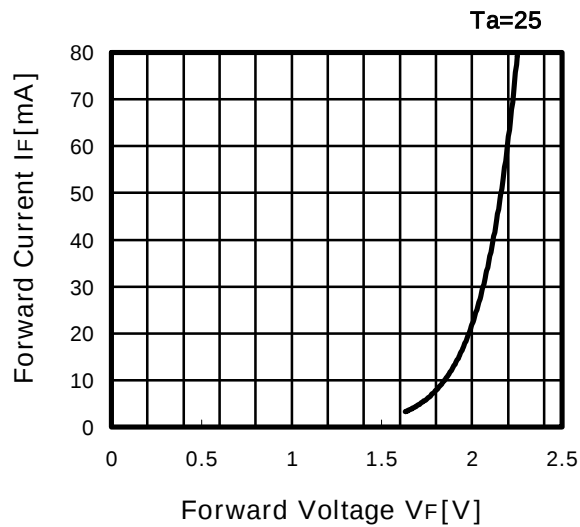


Fig. 2 $I_v - I_F$

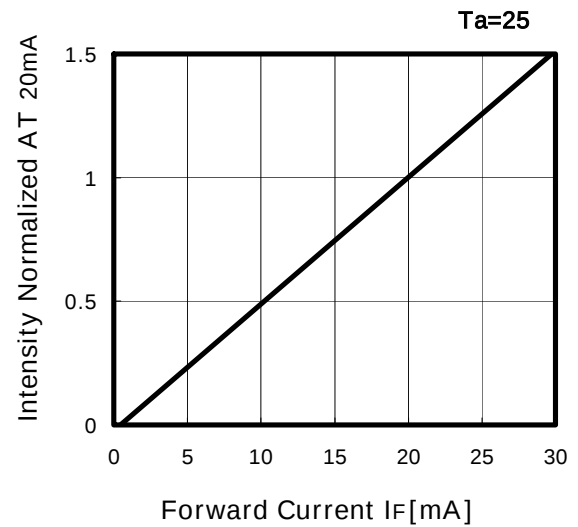


Fig.3 Max. Permissible Forward Current

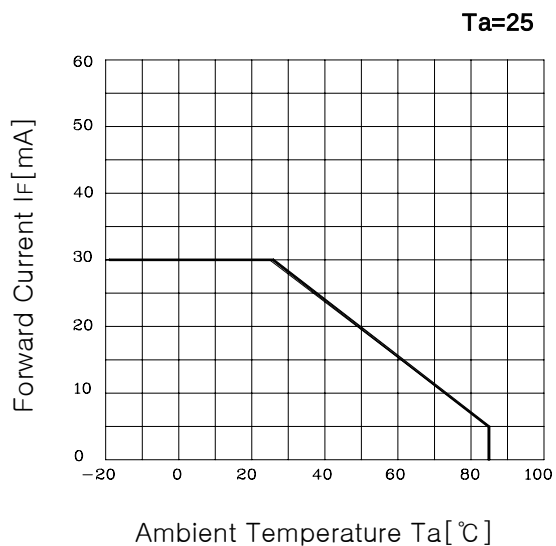


Fig. 3 Spectrum Distribution

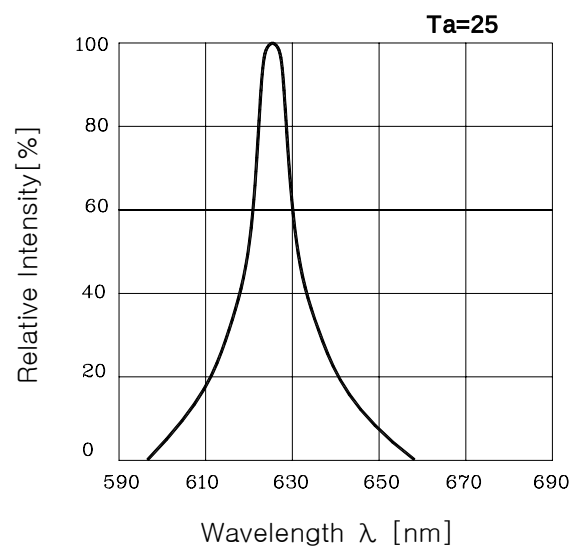
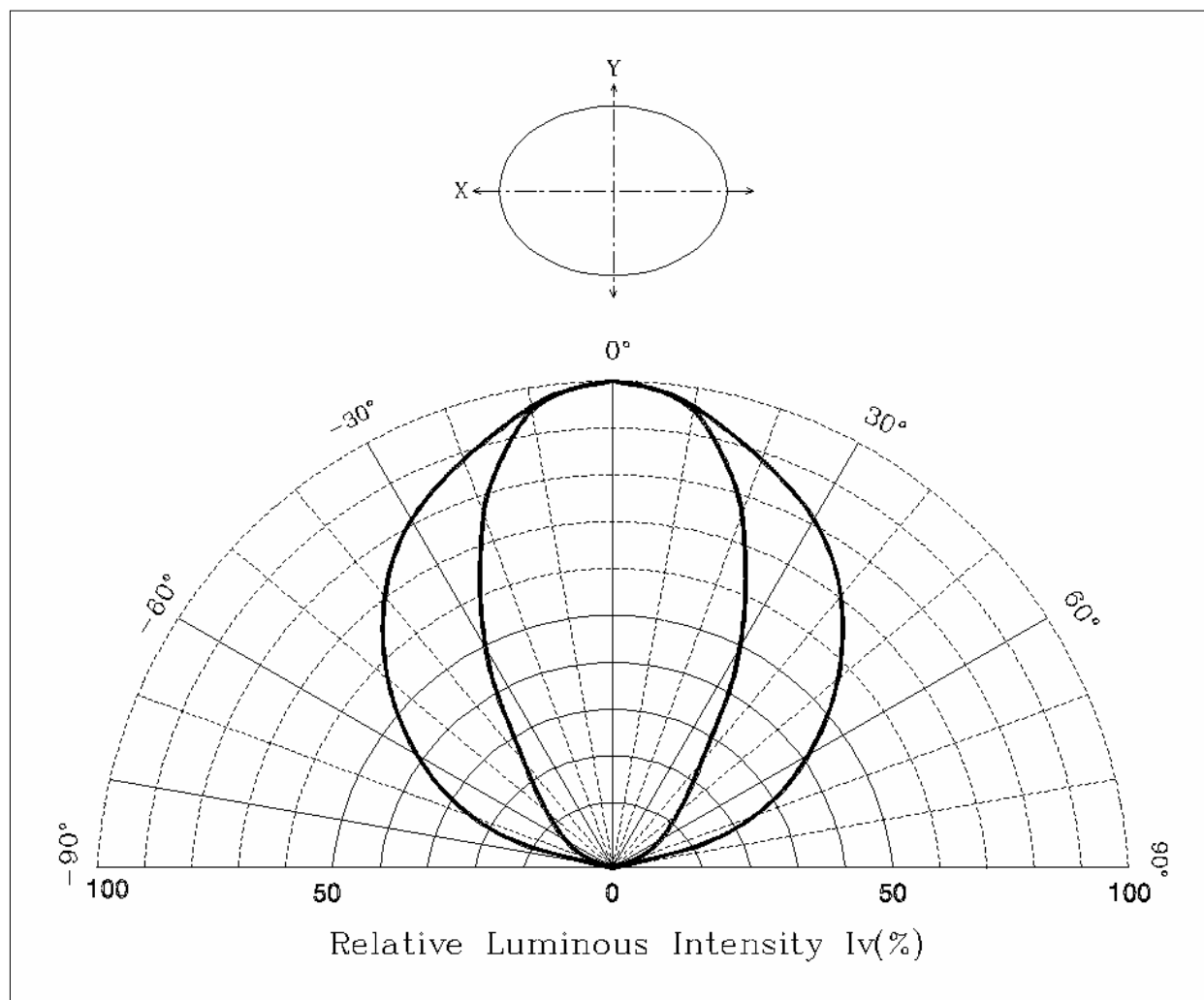


Fig. 4 Radiation Diagram

($T_a=25^\circ\text{C}$)



■ Revision history sheet

Spec NO.			
Title	Specification for Approval		
Times	Date	Summary of revision	Remarks
1	2001. 07. 15	신규제정	
2	2003. 02. 26	Format 변경	
3	2004. 06. 03	lv Rank 변경	