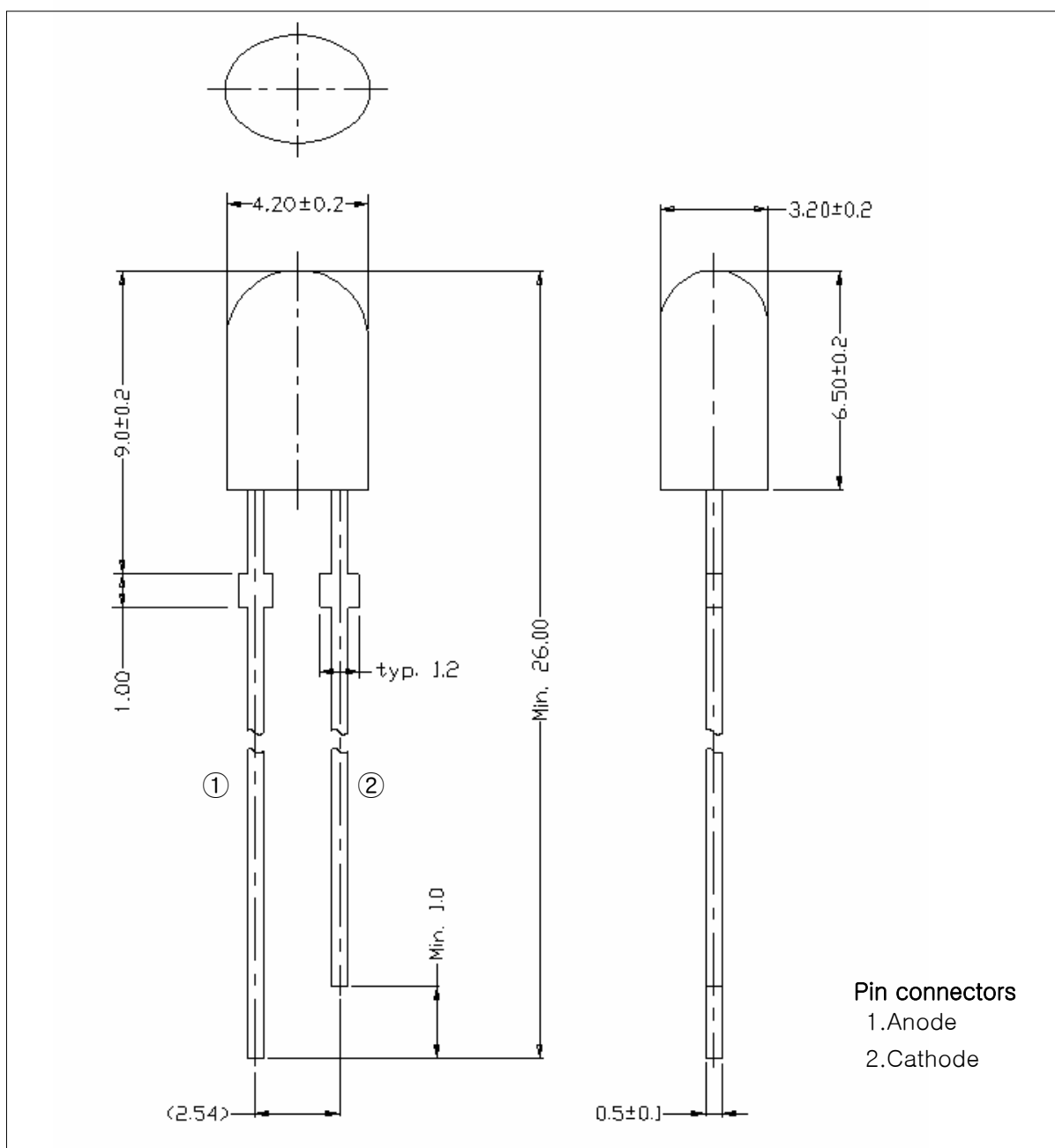


### ■ Features

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

### ■ Outline dimensions

(unit : mm)



### ■ Absolute Maximum Ratings

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

Characteristic	Symbol	Ratings	Unit
Power dissipation	$P_D$	75	mW
Forward Current	$I_F$	25	mA
* <sup>1</sup> Peak Forward Current	$I_{FP}$	50	mA
Reverse Voltage	$V_R$	5	V
Operating Temperature	$T_{opr}$	-25 ~ +85	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-30 ~ +100	$^\circ\text{C}$
* <sup>2</sup> Soldering Temperature	$T_{sol}$	260 $^\circ\text{C}$ 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

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

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit	
Forward Voltage	$V_F$	$I_F=20\text{mA}$	-	2.0	2.4	V	
Dominant Wavelength	$\lambda_d$	$I_F=20\text{mA}$	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	
* <sup>3</sup> Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$	x	-	$\pm 55$	-	deg
			y	-	$\pm 30$	-	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 <sub>F</sub> = 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 ±11%.

Intensity Measured : 0.01sr(CIE. LED\_B)

■ Characteristic Diagrams

Fig. 1  $I_F$ - $V_F$

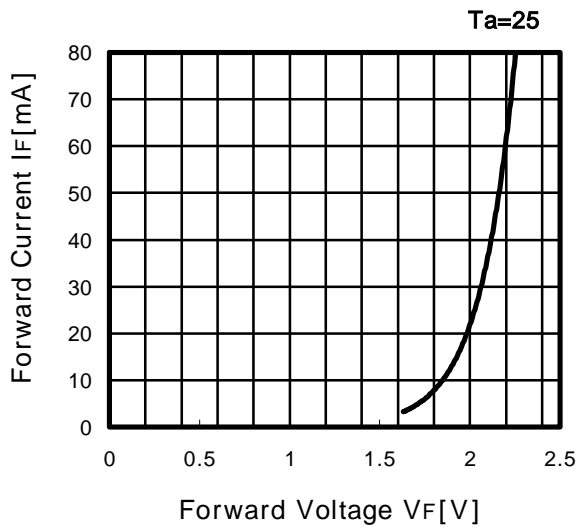


Fig. 2  $I_v$ - $I_F$

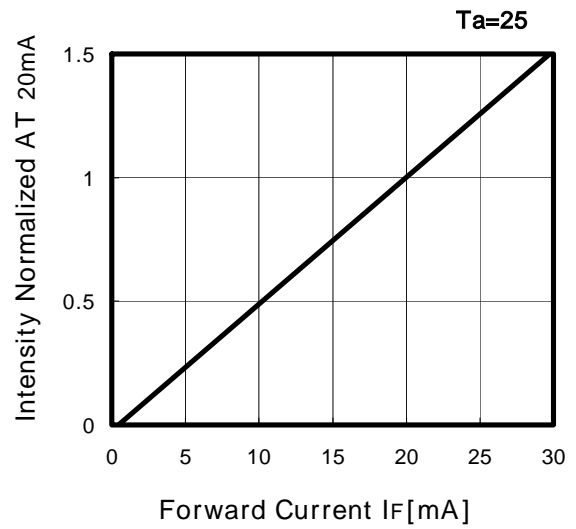


Fig.3 Max. Permissible Forward Current

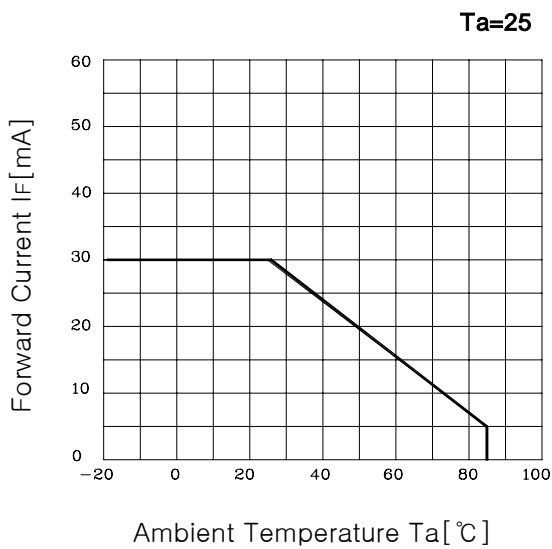


Fig. 3 Spectrum Distribution

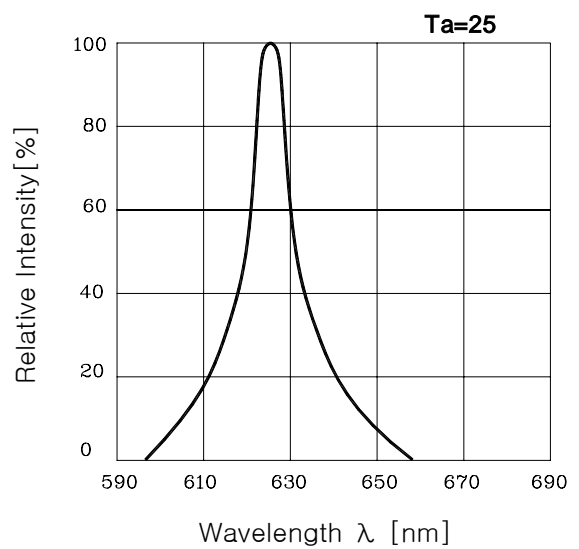
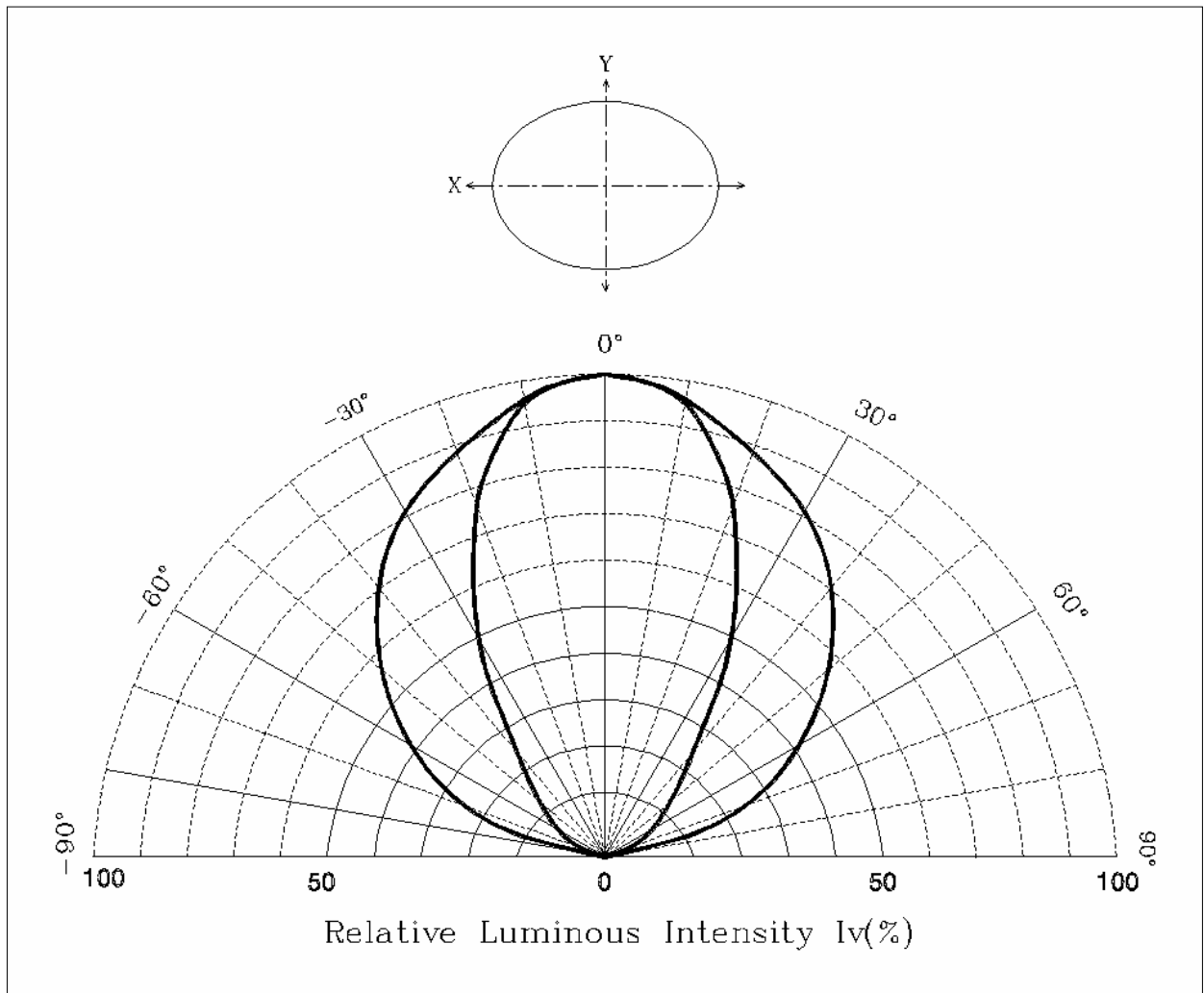


Fig. 4 Radiation Diagram

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



■ 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	Iv Rank 변경	