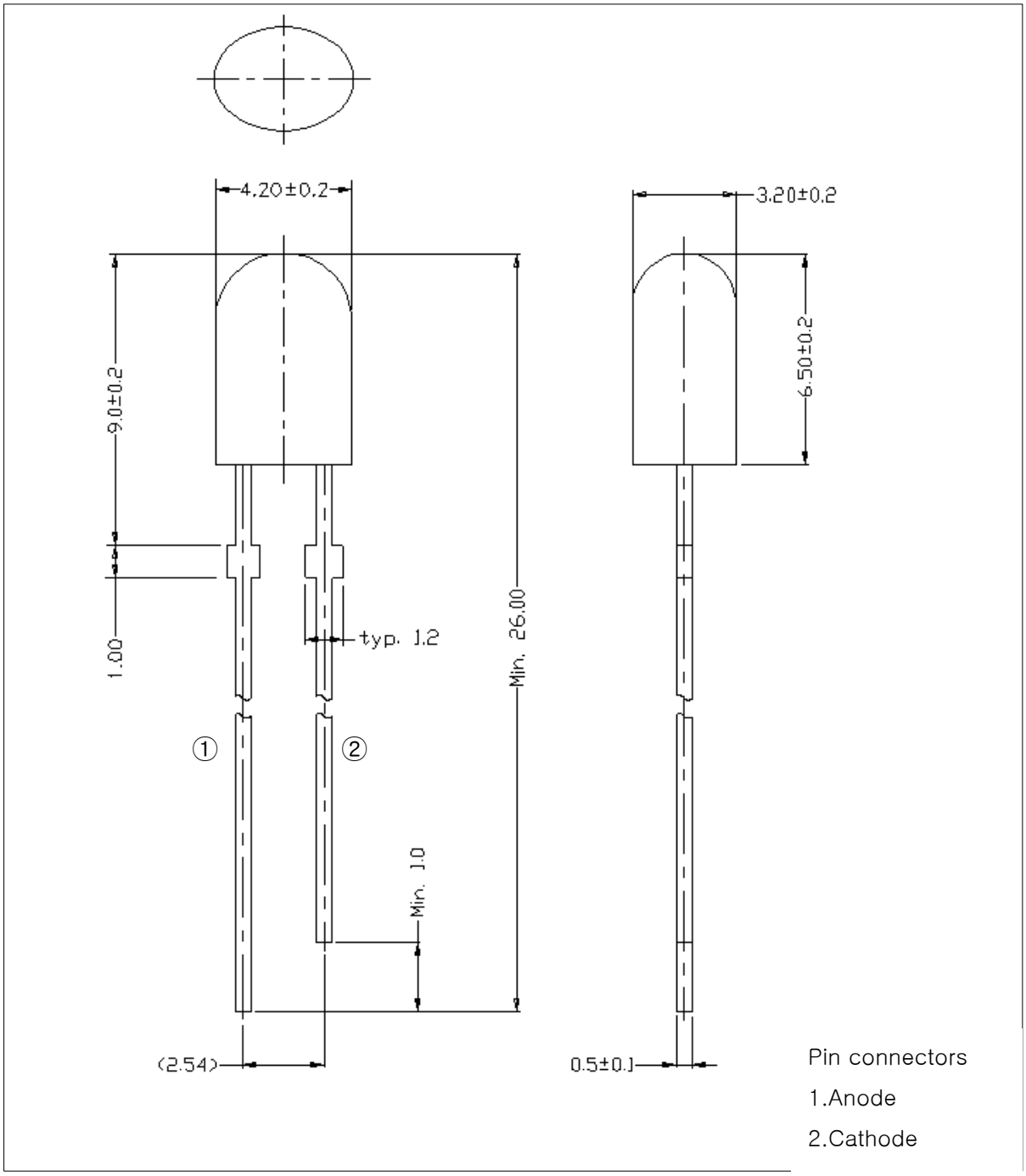
■ Features

- Colored transparency lens type
- ϕ4mm Oval plastic mold type
- High Luminosity

■ Outline dimensions

(unit : mm)



■ Absolute Maximum Ratings

(Ta=25℃)

Characteristic	Symbol	Ratings	Unit
Power dissipation	P_D	120	mW
Forward Current	I_F	30	mA
*[1]Peak Forward Current	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-30 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
*[2]Soldering Temperature	T_{sol}	260℃ for 3 seconds	

*1.Duty ratio = 1/16, Pulse width = 0.1ms

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

■ Electrical - Optical Characteristics

(Ta=25℃)

Characteristic	Symbol	Test Condition		Min.	Typ.	Max.	Unit
Spectrum Bandwidth	Δ_λ	I_F= 20mA		-	35	-	nm
Reverse Current	I_R	V_R=5V		-	-	50	uA
*[3]Half Angle	θ1/2	I_F= 20mA	x	-	±55	-	deg
			y	-	±30	-	deg

*3. θ1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

■ Dominant Wavelength

(Ta=25℃)

W_D RANK	Test Condition	Min.	Typ.	Max.	Unit
A	I_F= 20mA	465	-	470	nm
B		470	-	475	

* Wavelength are tested at a current pulse duration 25ms and an accuracy of ±1 nm.

■ Luminous intensity ranks

(Ta=25℃)

Iv RANK	Test Condition	Min.	Typ.	Max.	Unit
J	I_F= 20mA	150		210	mcd
K		210		300	
L		300		420	
M		420		600	

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

* Intensity Measured : 0.01sr(CIE. LED_B)

■ Forward Voltage

(Ta=25℃)

V_F RANK	Test Condition	Min.	Typ.	Max.	Unit
1	I_F= 20mA	-	3.1	3.3	V
2		3.3	3.5	3.8	

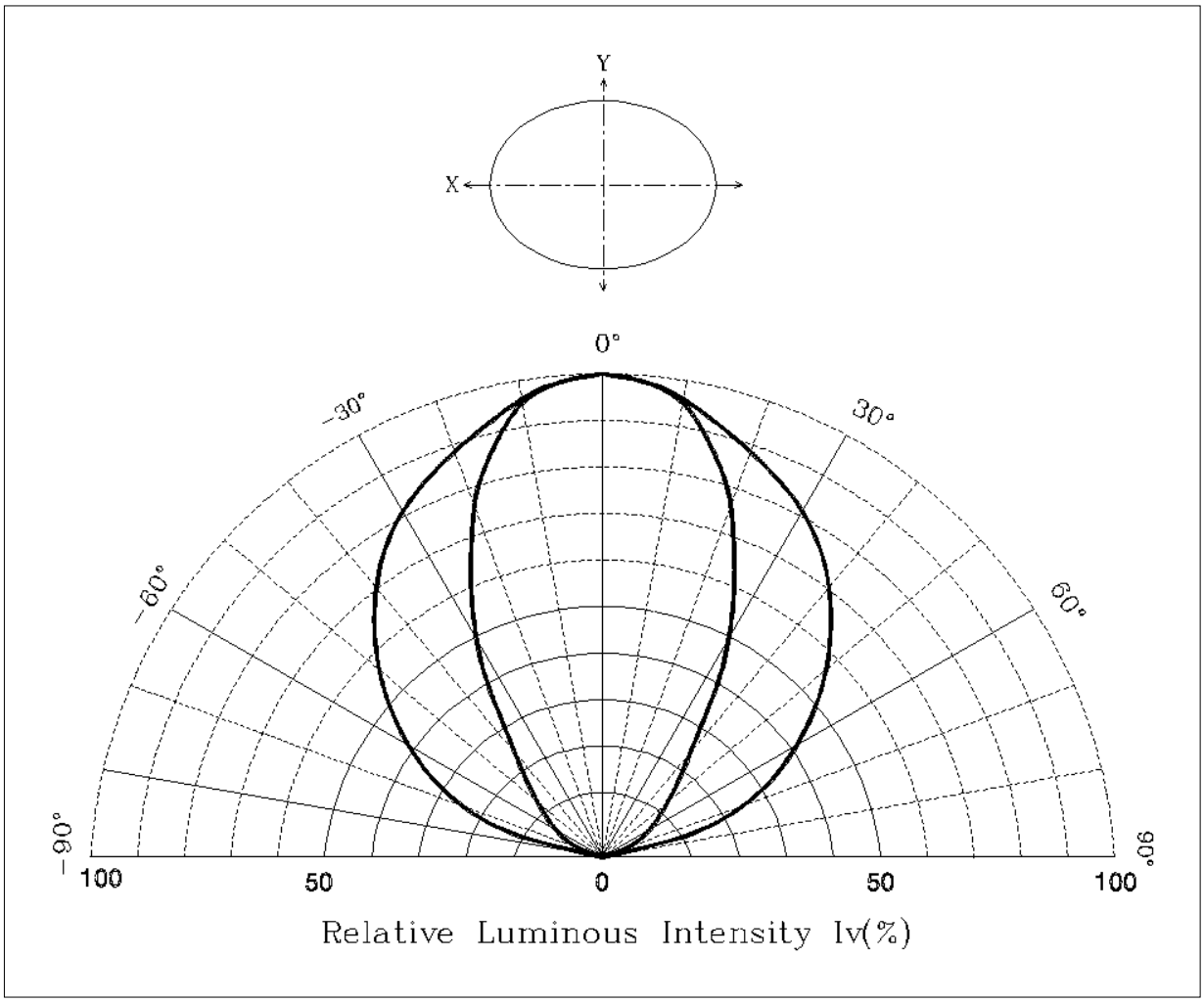
* Voltages are tested at a current pulse duration of 1 ms and an accuracy of ±0.1V.

■ Precautions On LED using

* To avoid optical difference, Please do not mix differently-ranked product.

■ Directive Characteristics

(Ta=25℃)



■ Characteristic Diagrams

Fig. 1 I_F-V_F

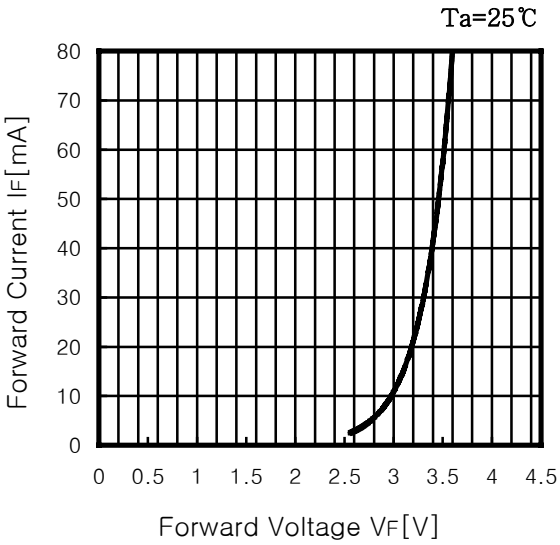


Fig. 2 I_V-I_F

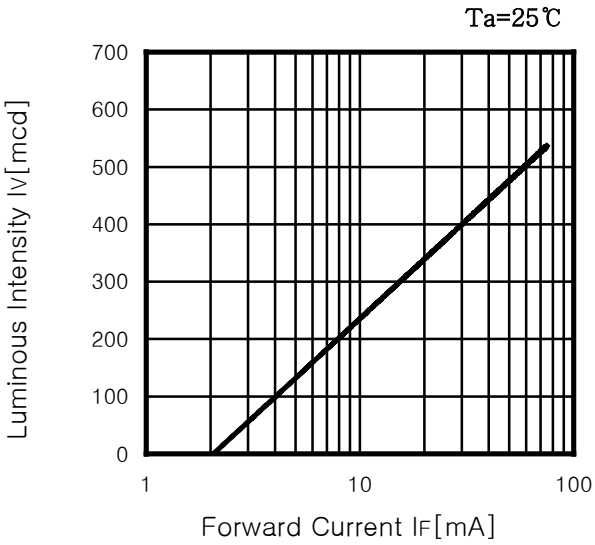


Fig. 3 I_F-Ta

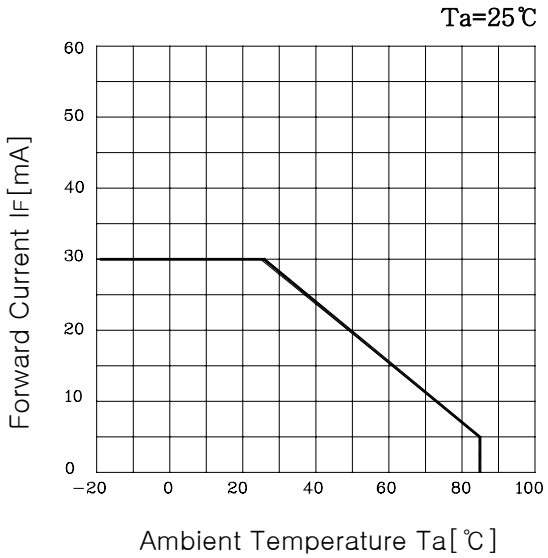
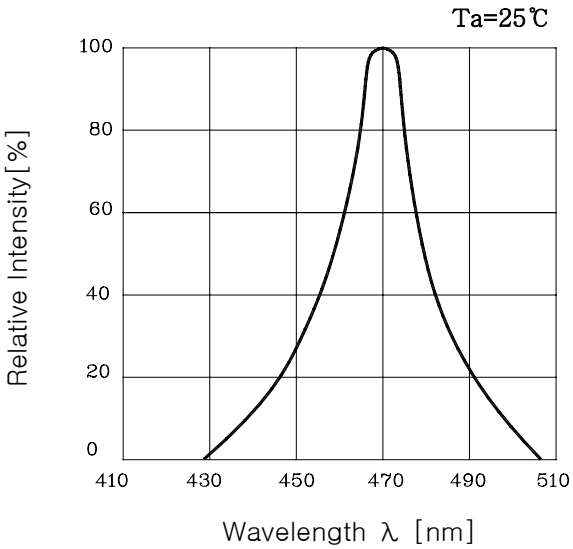


Fig. 4 Spectrum Distribution



■ 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	