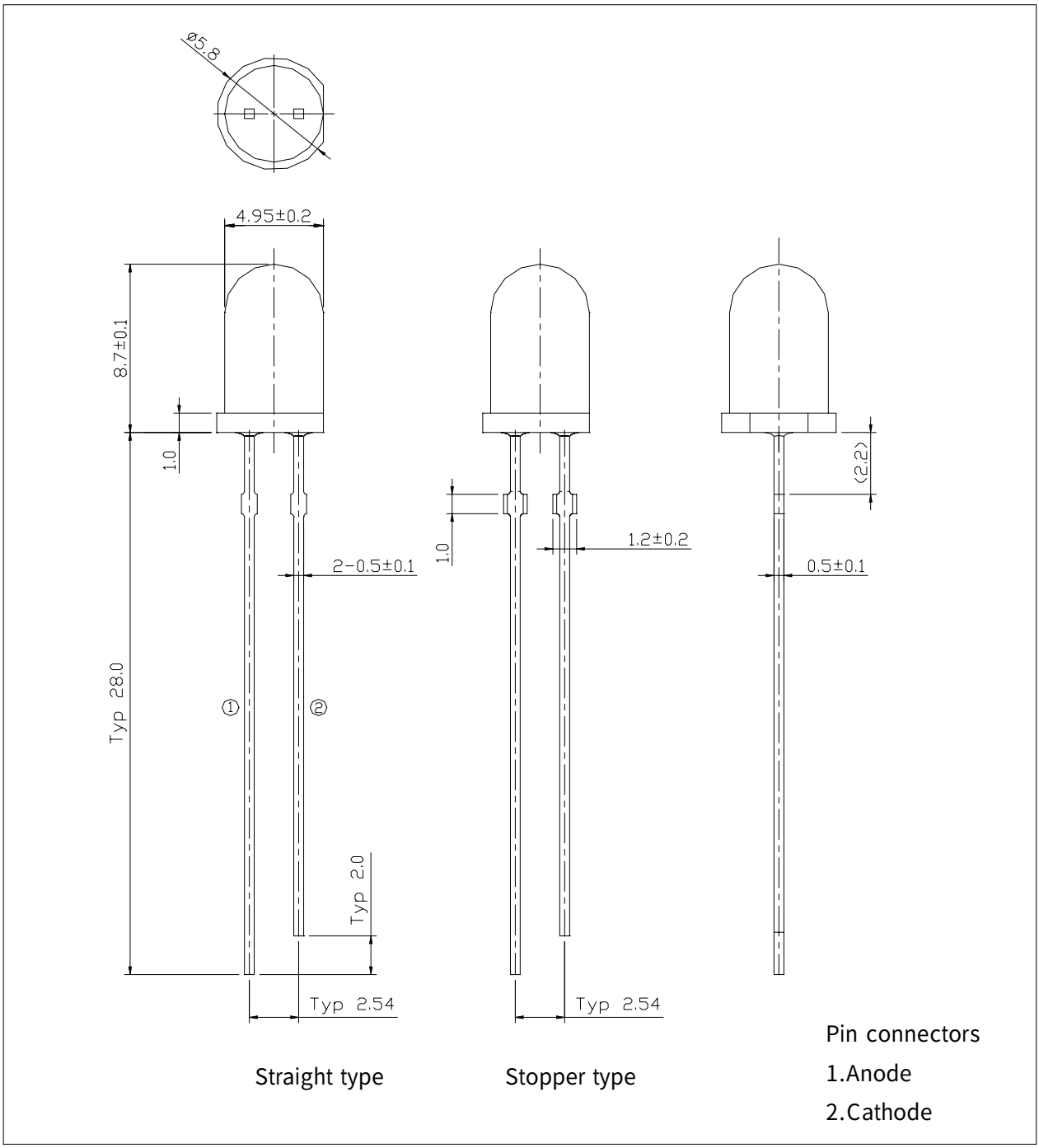
■ Features

- Colored transparency lens type
- ϕ5mm(T-1¾) all plastic mold type
- High Luminosity

■ Outline dimensions

(unit : mm)



■ Absolute Maximum Ratings

(Ta=25℃)

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	75	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 = 1/10, 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
Forward Voltage	V_F	I_F= 20mA	-	1.9	2.2	V
Dominant Wavelength	λ_D	I_F= 20mA	-	645	-	nm
Spectrum Bandwidth	$\Delta\lambda$	I_F= 20mA	-	20	-	nm
Reverse Current	I_R	V_R=5V	-	-	10	Ua
*[3]Half Angle	$\theta 1/2$	I_F= 20mA	-	±15	-	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℃)

Iv RANK	Test Condition	Min.	Typ.	Max.	Unit
N	I_F= 20mA	600	-	850	mcd
O		850	-	1200	
P		1200	-	1700	

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

Intensity Measured : 0.01sr(CIE. LED_B)

■ Precautions On LED using

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

■ Characteristic Diagrams

Fig. 1 I_F-V_F

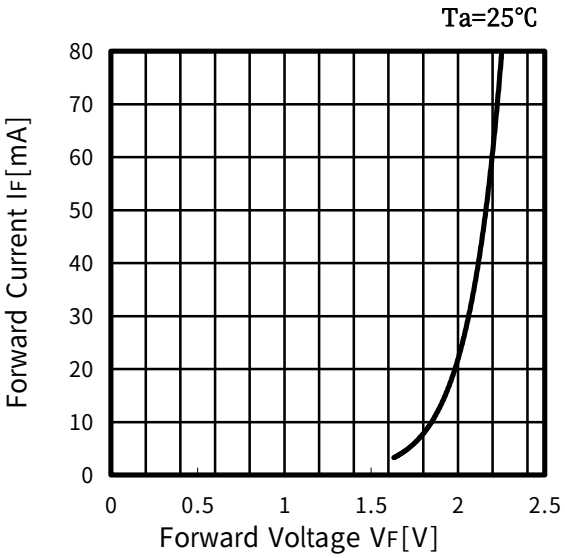


Fig. 2 I_V-I_F

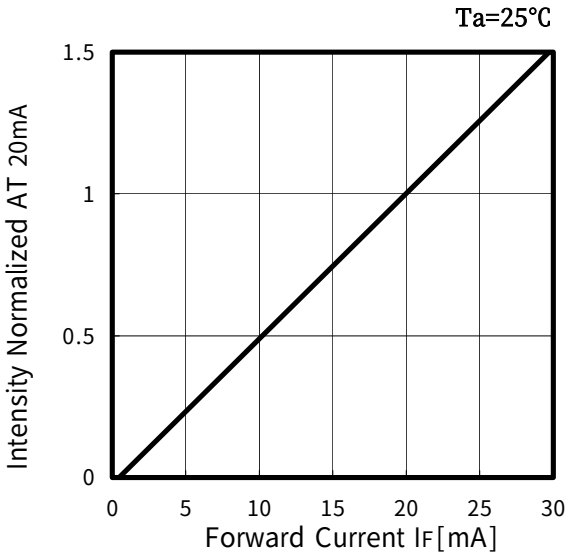


Fig. 3 I_F-Ta

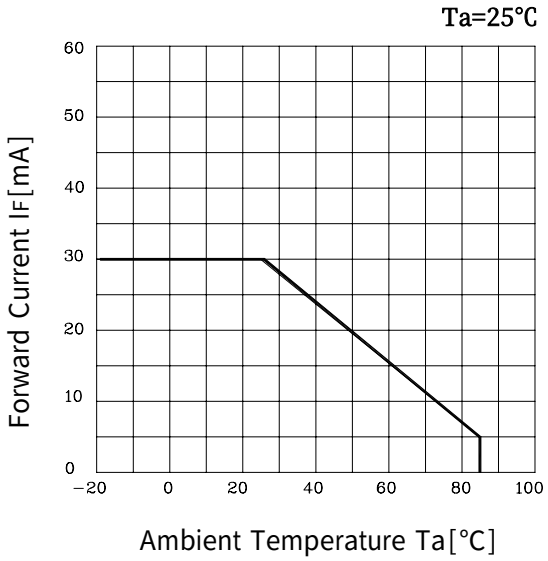


Fig. 4 Spectrum Distribution

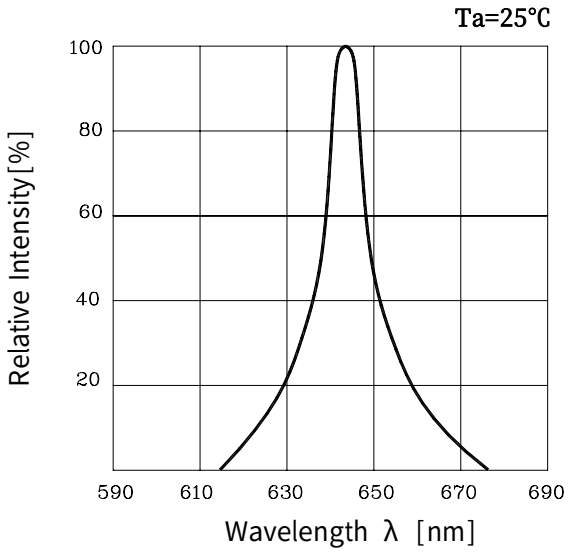
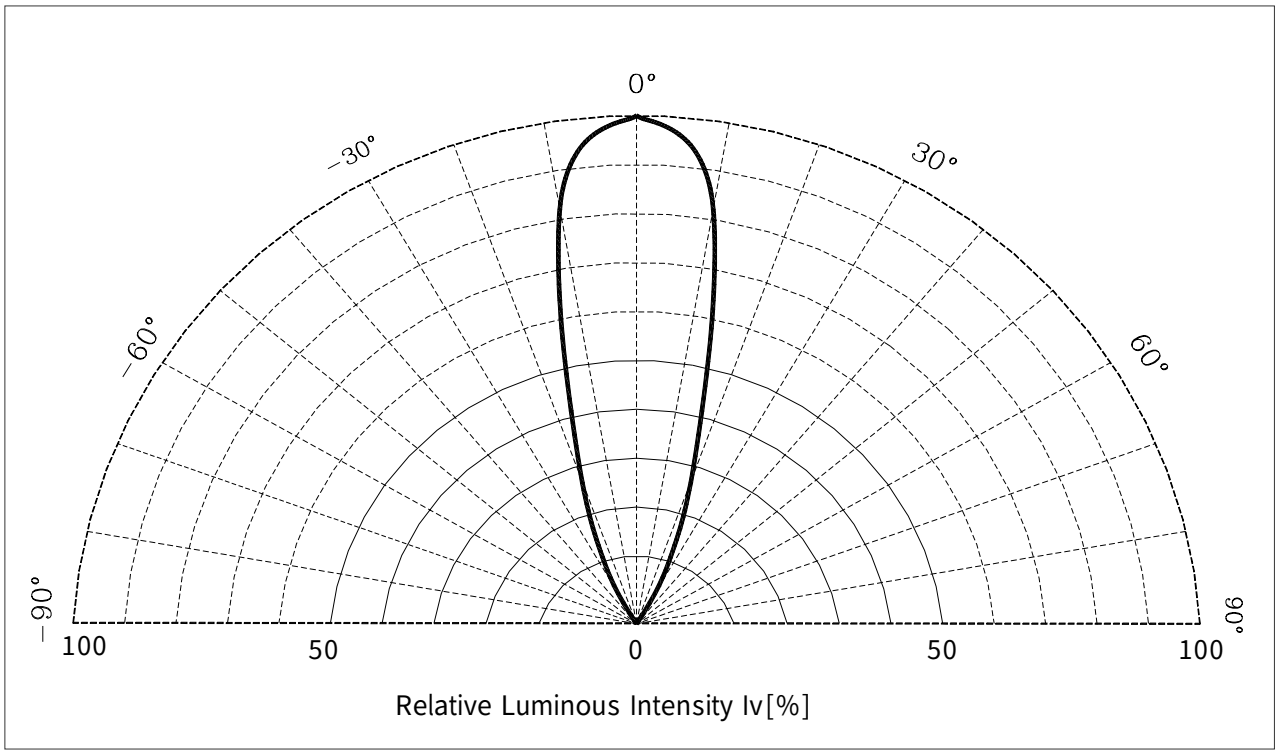


Fig. 4 Radiation Characteristics



■ 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	