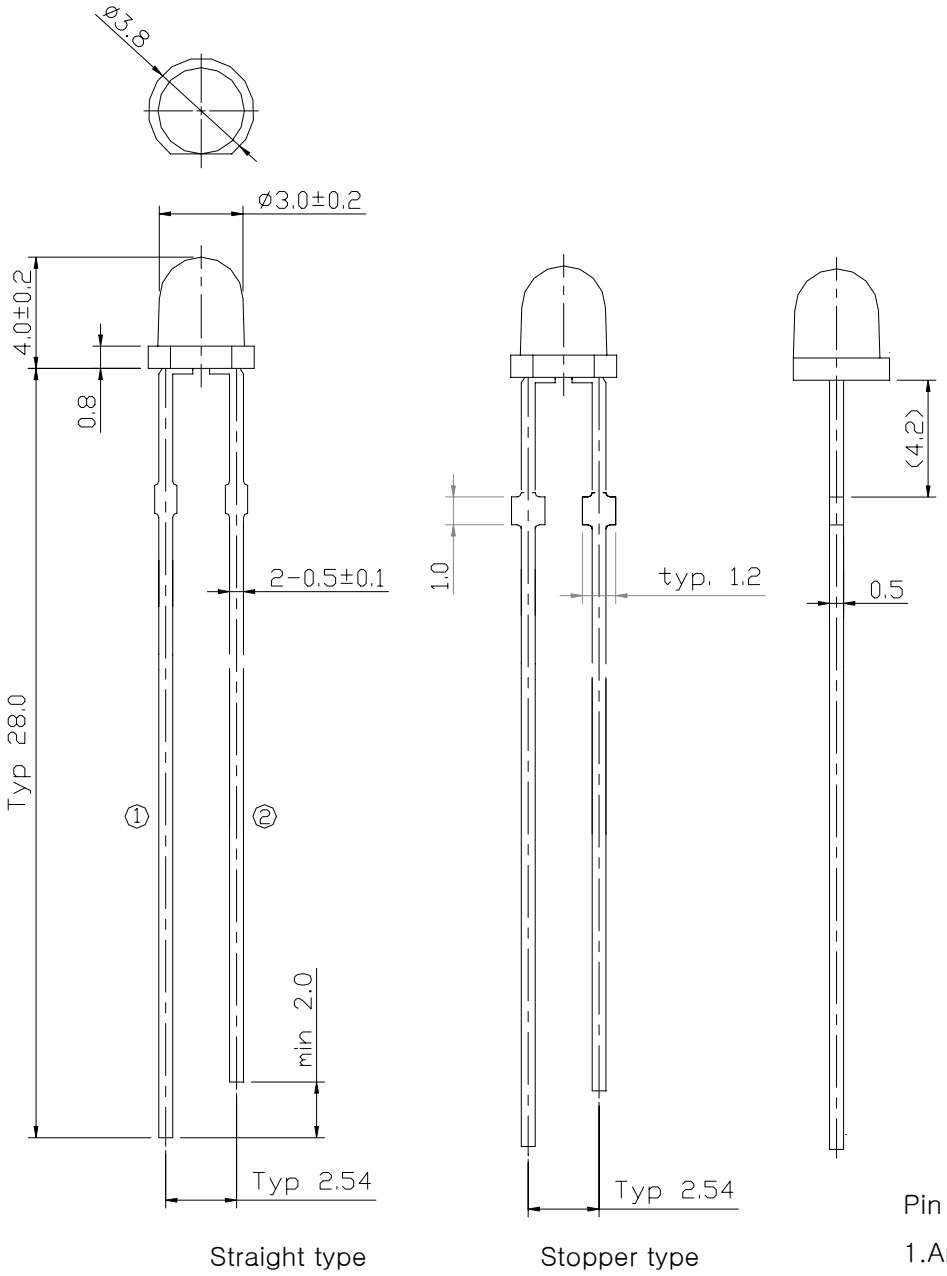
■ Features

- Colorless transparency lens type
- ϕ3mm(T-1) all plastic mold type
- Wide view angle type
- High luminosity

■ Outline dimensions

(unit : mm)



■ Absolute maximum ratings

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 ≦ 1/10, Pulse Width ≦ 10msec

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

■ Electrical - Optical Characteristics

(Ta=25℃)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F= 20mA	-	2.0	2.5	V
Dominant Wavelength	λ_P	I_F= 20mA	-	621	-	nm
Spectrum Bandwidth	Δ_λ	I_F= 20mA	-	25	-	nm
Reverse Current	I_R	V_R=5V	-	-	10	uA
*[3]Half Angle	$\theta 1/2$	I_F= 20mA	-	±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℃)

Iv RANK	Test Condition	Min.	Typ.	Max.	Unit
P	I_F= 20mA	1200	-	1700	mcd
Q		1700	-	2400	
R		2400	-	3400	
S		3400	-	4800	

* 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 IF-VF

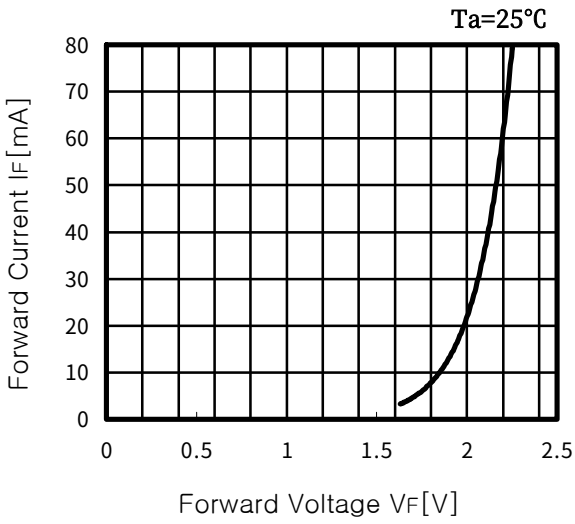


Fig. 2 Iv-IF

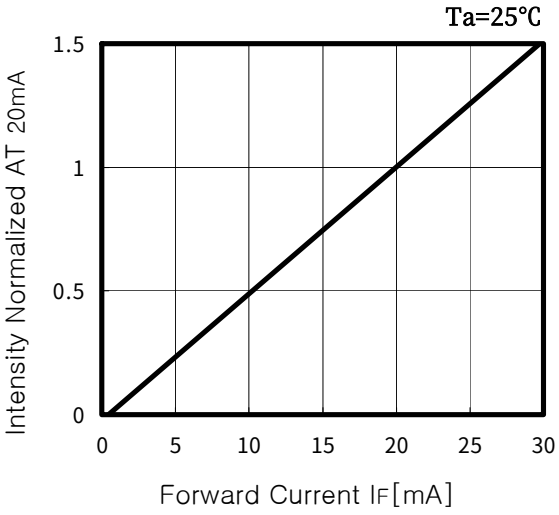


Fig. 3 Spectrum Distribution

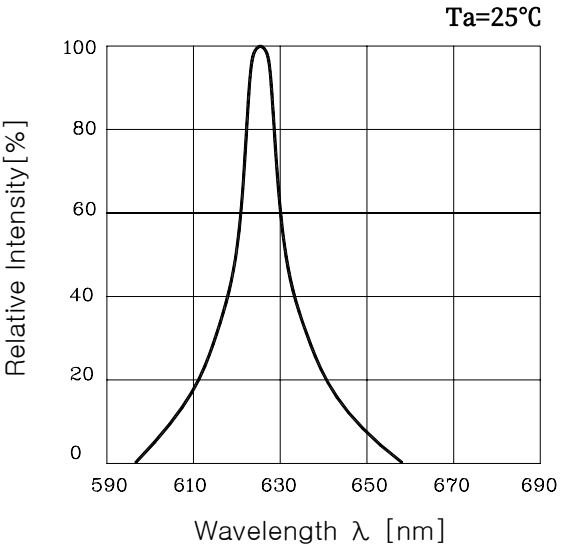


Fig. 4 Relative Intensity-Ta

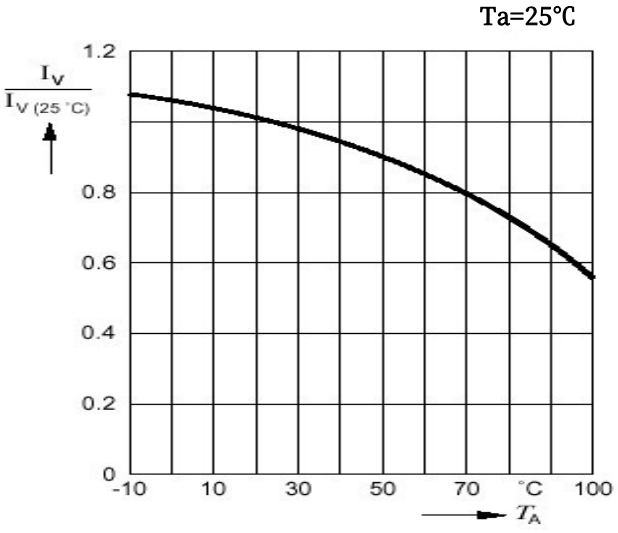
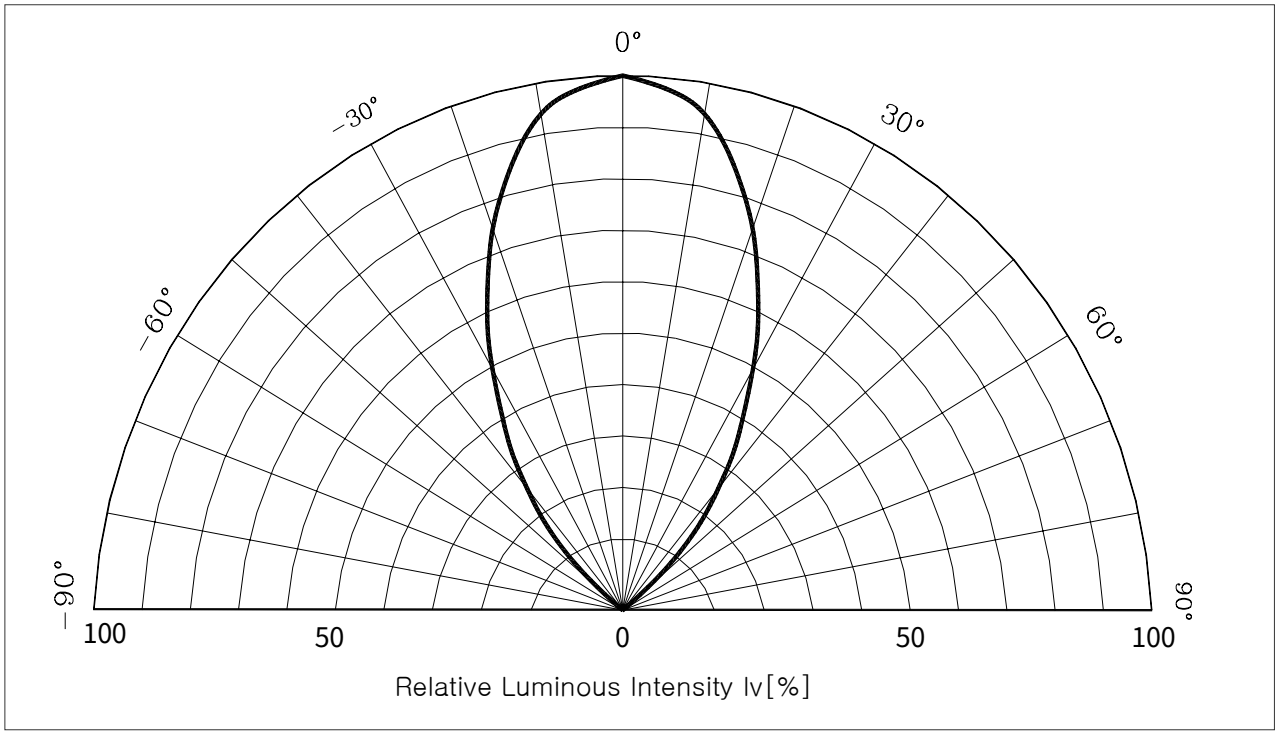


Fig. 5 Radiation Diagram



■ 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	