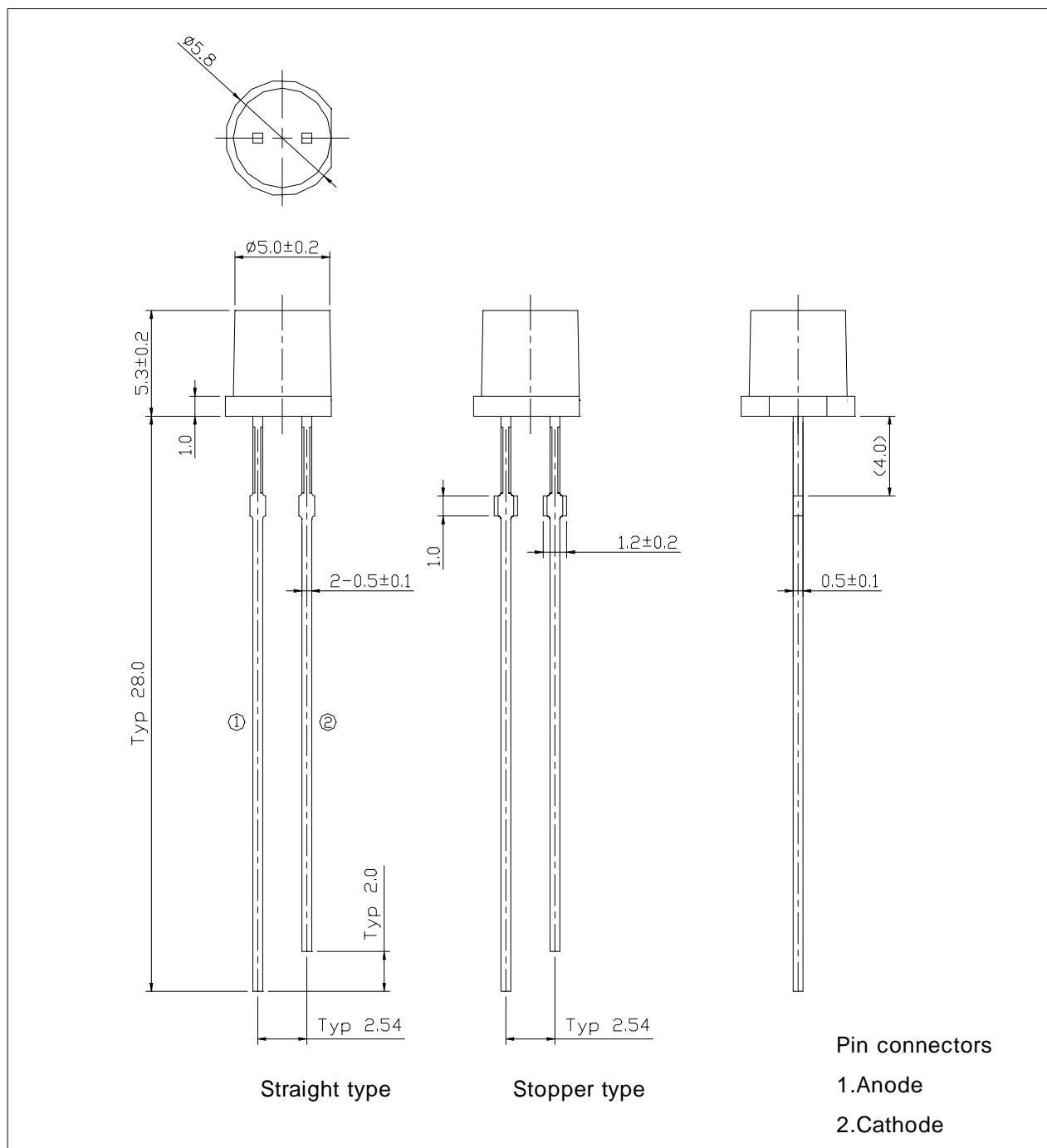


Features

- Colorless transparency lens type
- $\phi 5\text{mm}$ (T-1 $\frac{3}{4}$) all plastic mold type
- Ultra luminous

Outline dimensions

(unit : mm)



Different and Better

Absolute Maximum Ratings

(Ta=25)

Parameter	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
ESD Check Forward Voltage	V_{F2}	$I_F = 10\mu A$	2.0	-	-	V
Reverse Current	I_R	$V_R = 5V$	-	-	50	μA
Dominant Wavelength	λ_d	$I_F = 20mA$	465	-	475	nm
Spectrum Bandwidth		$I_F = 20mA$	-	35	-	nm
*3 Half Angle	$\theta_{1/2}$	$I_F = 20mA$	-	± 55	-	deg

 *3. $\theta_{1/2}$ 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)

I _v RANK	Test Condition	Min.	Typ.	Max.	Unit
H	I _F = 20mA	110	-	150	mcd
J		150	-	210	
K		210	-	300	
L		300	-	420	

* 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)

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 $\pm 0.1V$.

Precautions On LED using

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

Characteristic Diagrams

Fig. 1 I_F - V_F

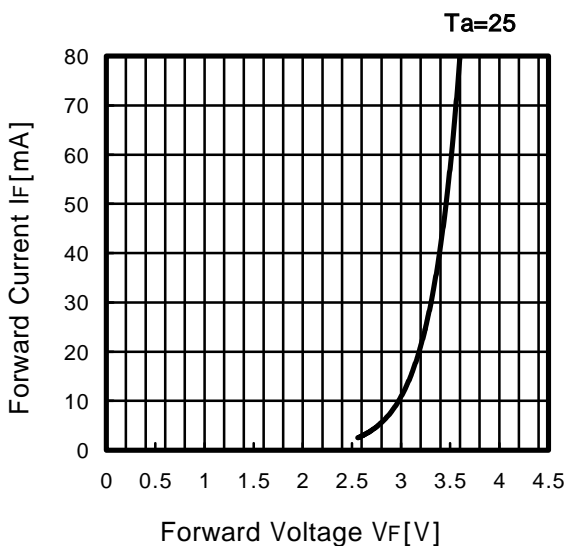


Fig. 2 I_v - I_F

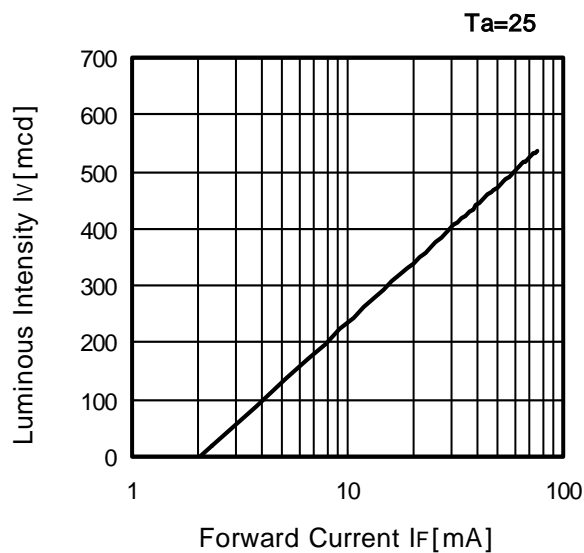


Fig. 3 I_F - T_a

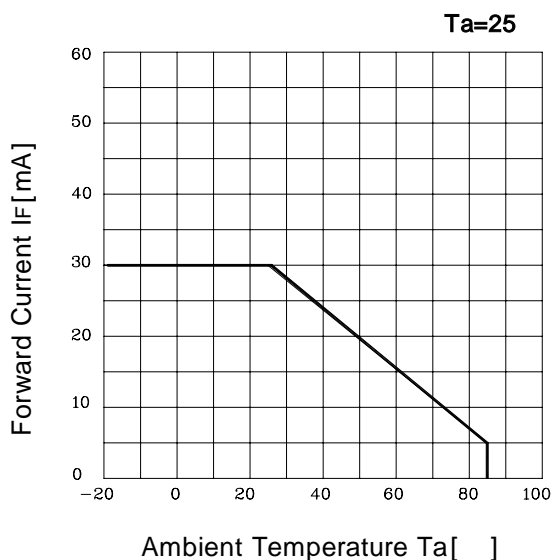


Fig. 4 Spectrum Distribution

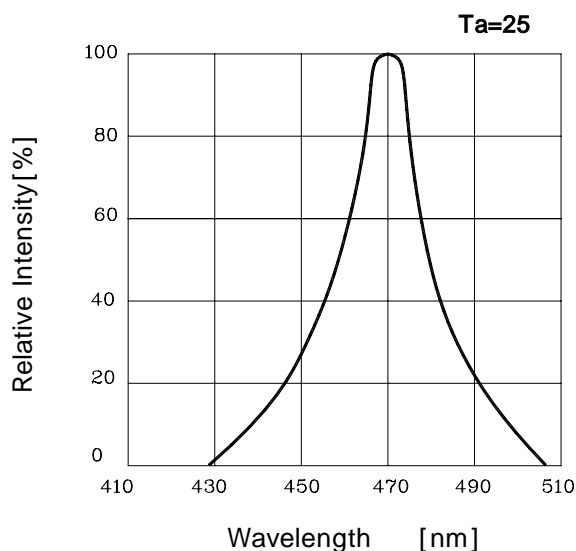
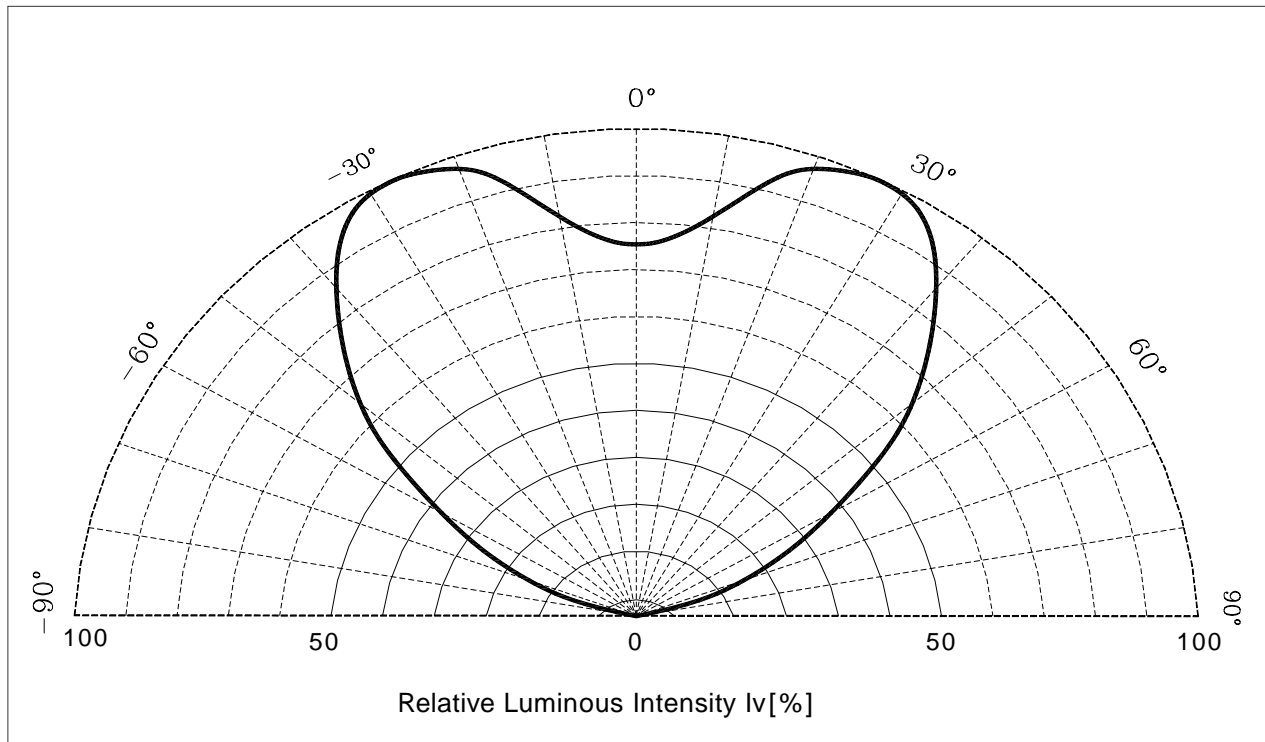


Fig. 5 Radiation Diagram



Revision history sheet

Spec NO.			
Title	Specification for Approval		
Times	Date	Summary of revision	Remarks
1	2001. 07. 15		
2	2003. 02. 26	Format	