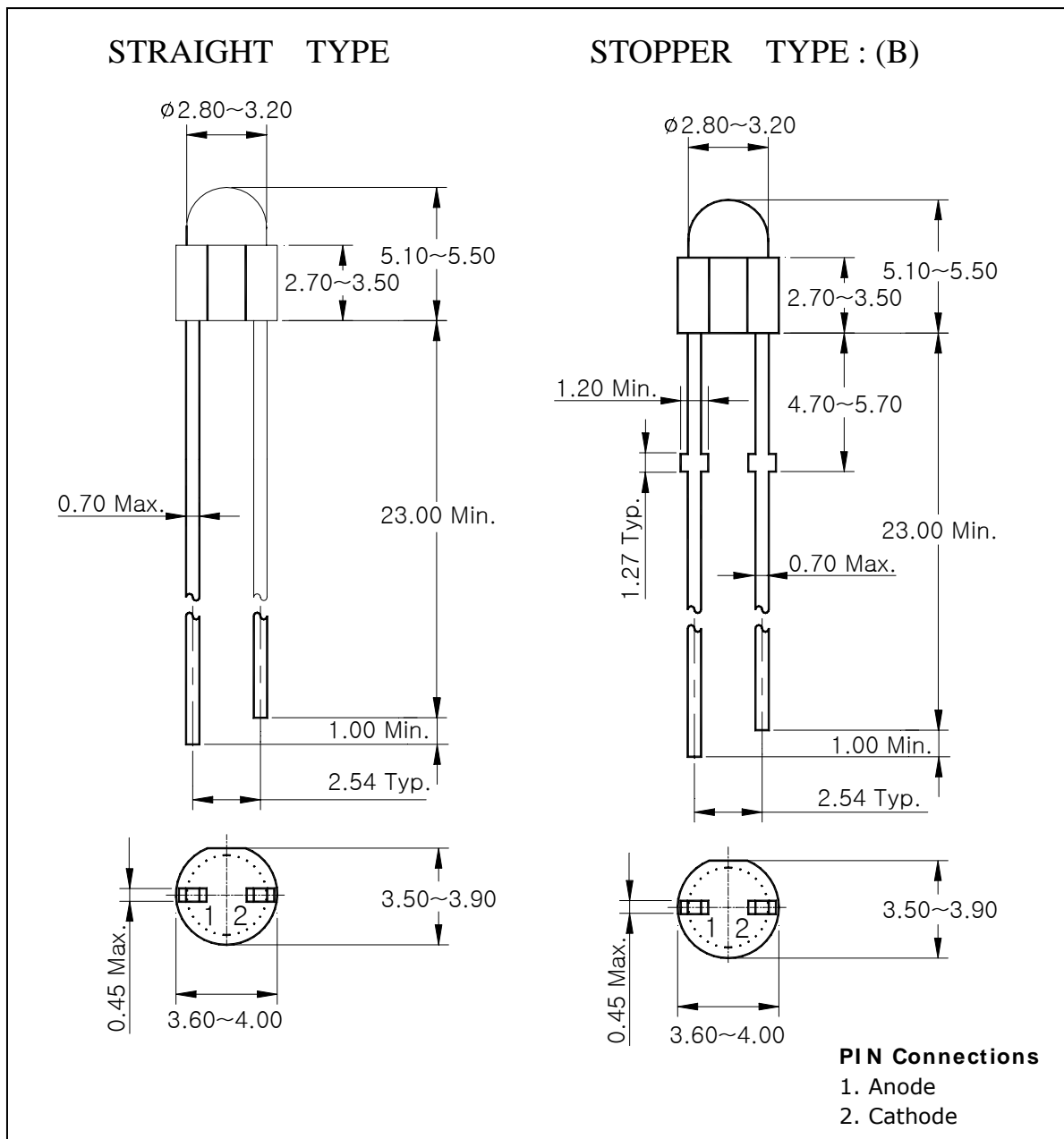


1. Features

- ◆  $\phi 3\text{mm}$ (T-1) all plastic mold type
- ◆ Available on tape and reel

2. Outline Dimensions

unit : mm



The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.

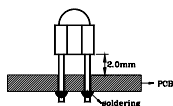
## 3. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	$P_D$	70	mW
Forward current	$I_F$	30	mA
*1 Peak forward current	$I_{FP}$	50	mA
Reverse voltage	$V_R$	4	V
Operating temperature range	$T_{opr}$	-25 ~ 85	°C
Storage temperature range	$T_{stg}$	-30 ~ 100	°C
*2 Soldering temperature	$T_{sol}$	260°C for 10 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



## 4. Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F=20\text{mA}$	1.9	-	2.3	V
*4 Luminous intensity	$I_V$	$I_F=20\text{mA}$	230	-	780	mcd
Dominant wavelength	$\lambda_D$	$I_F=20\text{mA}$	569	572	575	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	-	30	-	nm
Reverse current	$I_R$	$V_R=4\text{V}$	-	-	10	uA
*3 Half angle	$\theta_{1/2}$	$I_F=20\text{mA}$	-	$\pm 22$	-	deg

\*3.  $\theta_{1/2}$  is the off-axis angle where the luminous intensity is 1/2 the peak intensity\*4. Luminous intensity maximum tolerance for each grade classification limit is  $\pm 18\%$ 

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◆  $V_F / I_V / \lambda_D$  Grade Classification ( $T_a=25^\circ\text{C}$ )

Test Condition @ $I_F = 20\text{mA}$		
Forward Voltage [V]	Luminous Intensity [mcd]	Dominant Wavelength [nm]
1 : 1.9~2.1	N : 230~350	a : 569~571
	O : 350~520	$b_1$ : 571~572
2 : 2.1~2.3	P : 520~780	$b_2$ : 572~573
		c : 573~575

(Do not use to combine grade classification. It must be used separately grade classification)

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5. Characteristic Diagrams

Fig. 1  $I_F - V_F$

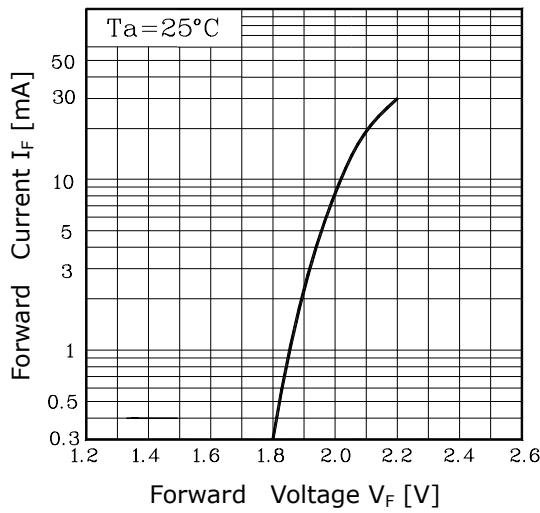


Fig. 2  $I_V - I_F$

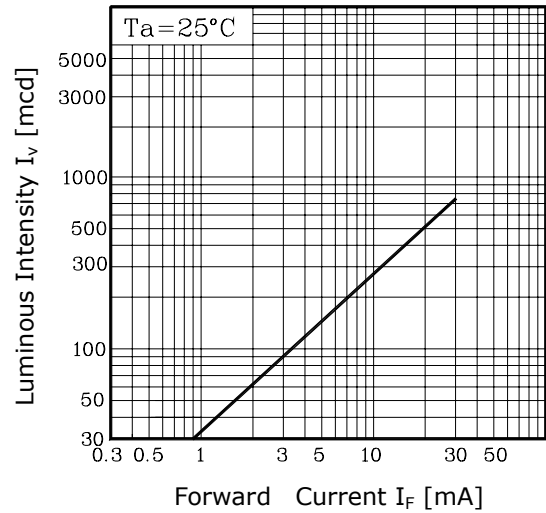


Fig. 3  $I_F - T_a$

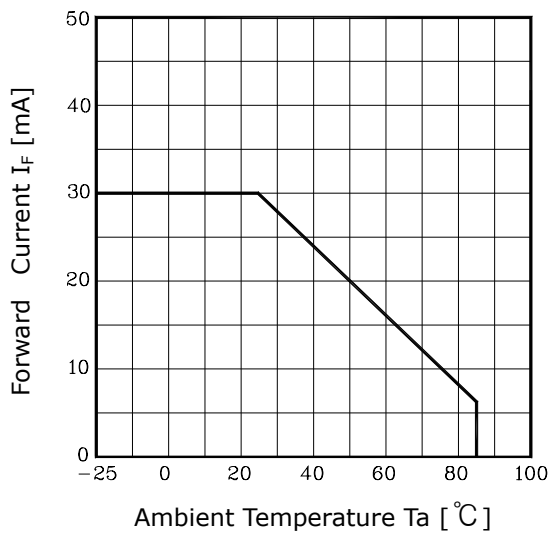


Fig.4 Spectrum Distribution

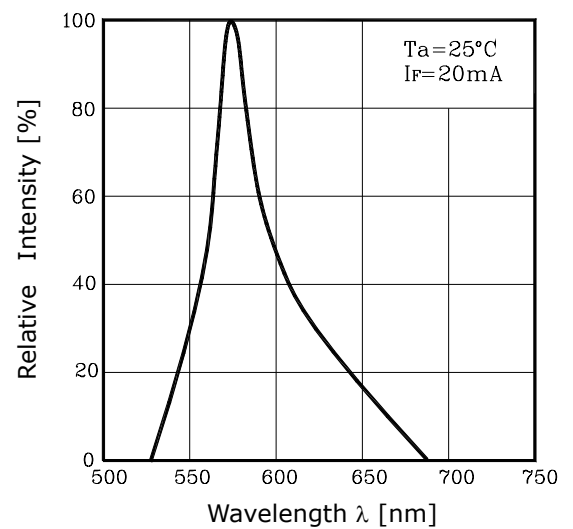
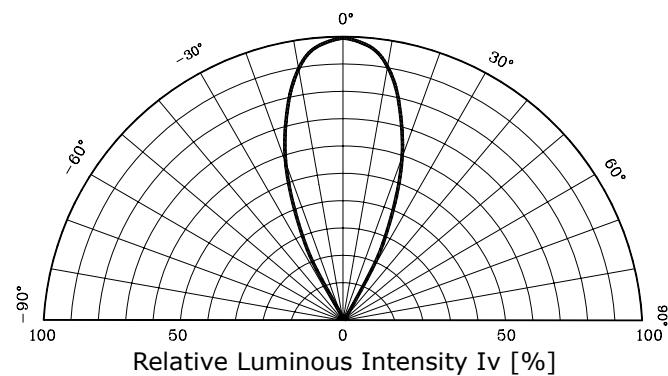


Fig. 5 Radiation Diagram



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