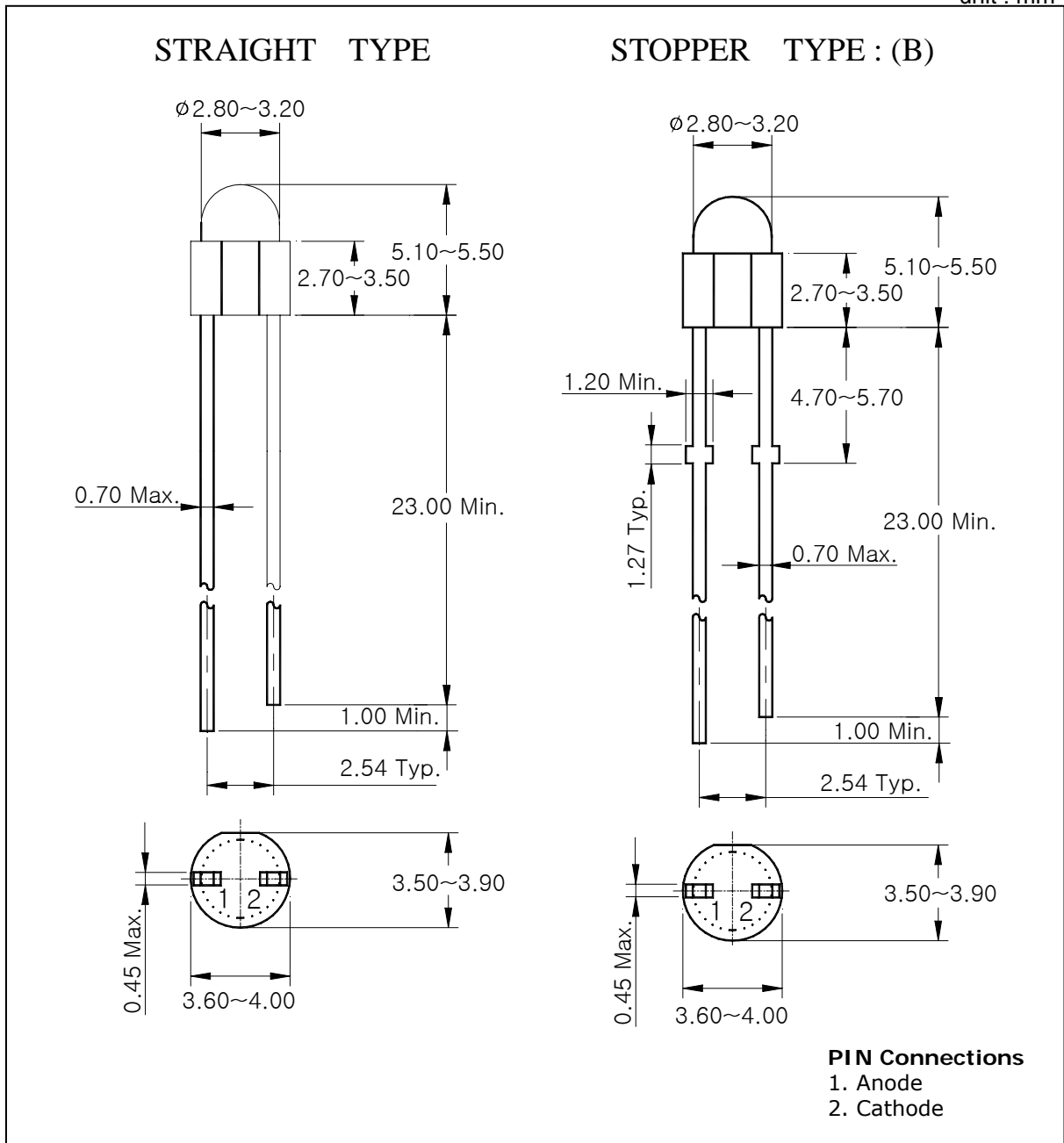


**SY3417 / SY3417(B)****1. Features**

- ◆ Yellow colored transparency lens type
- ◆  $\phi 3\text{mm(T-1)}$  all plastic mold type
- ◆ Low power consumption

**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.

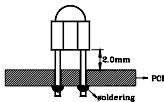
**SY3417 / SY3417(B)****3. Absolute Maximum Ratings**

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	$P_D$	75	mW
Forward current	$I_F$	30	mA
*1Peak 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
*2Soldering 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	$V_F$	$I_F=20\text{mA}$	-	2.1	2.5	V
*3Luminous intensity	$I_V$	$I_F=20\text{mA}$	27	-	155	mcd
Dominant wavelength	$\lambda_D$	$I_F=20\text{mA}$	583	588	592	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	-	30	-	nm
Reverse current	$I_R$	$V_R=4\text{V}$	-	-	10	uA
*4Half angle	$\theta_{1/2}$	$I_F=20\text{mA}$	-	$\pm 17$	-	deg

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

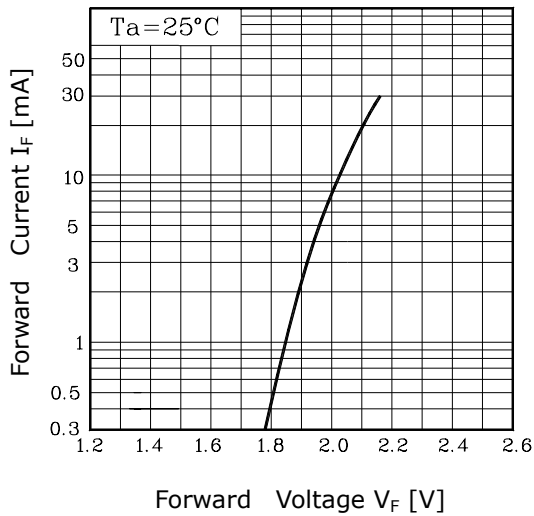
\*3. Luminous Intensity Classification

I	J	K	L
27 ~ 43	43 ~ 68	68 ~ 100	100 ~ 155

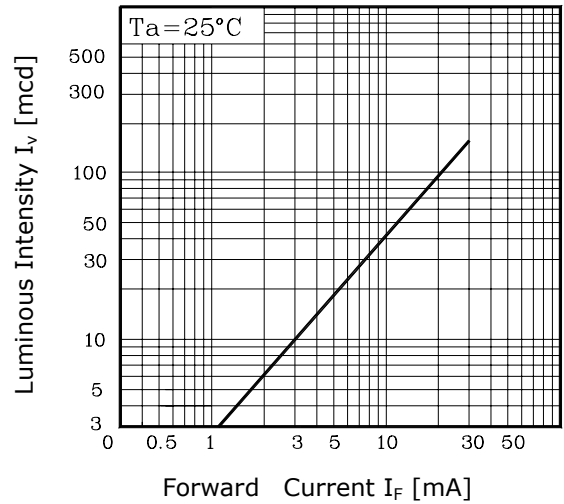
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**5. Characteristic Diagrams**

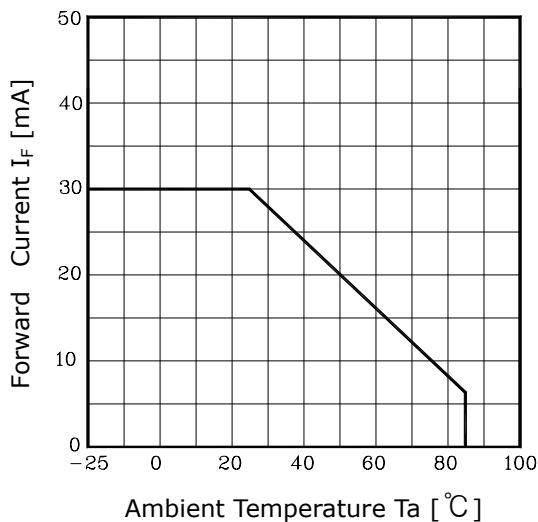
**Fig. 1  $I_F - V_F$**



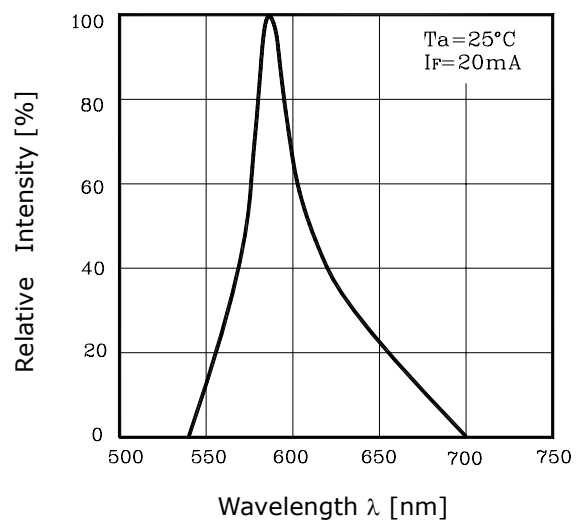
**Fig. 2  $I_V - I_F$**



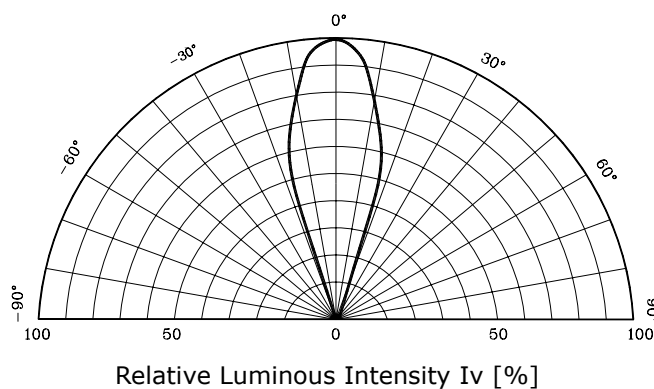
**Fig. 3  $I_F - T_a$**



**Fig.4 Spectrum Distribution**



**Fig. 5 Radiation Diagram**



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