

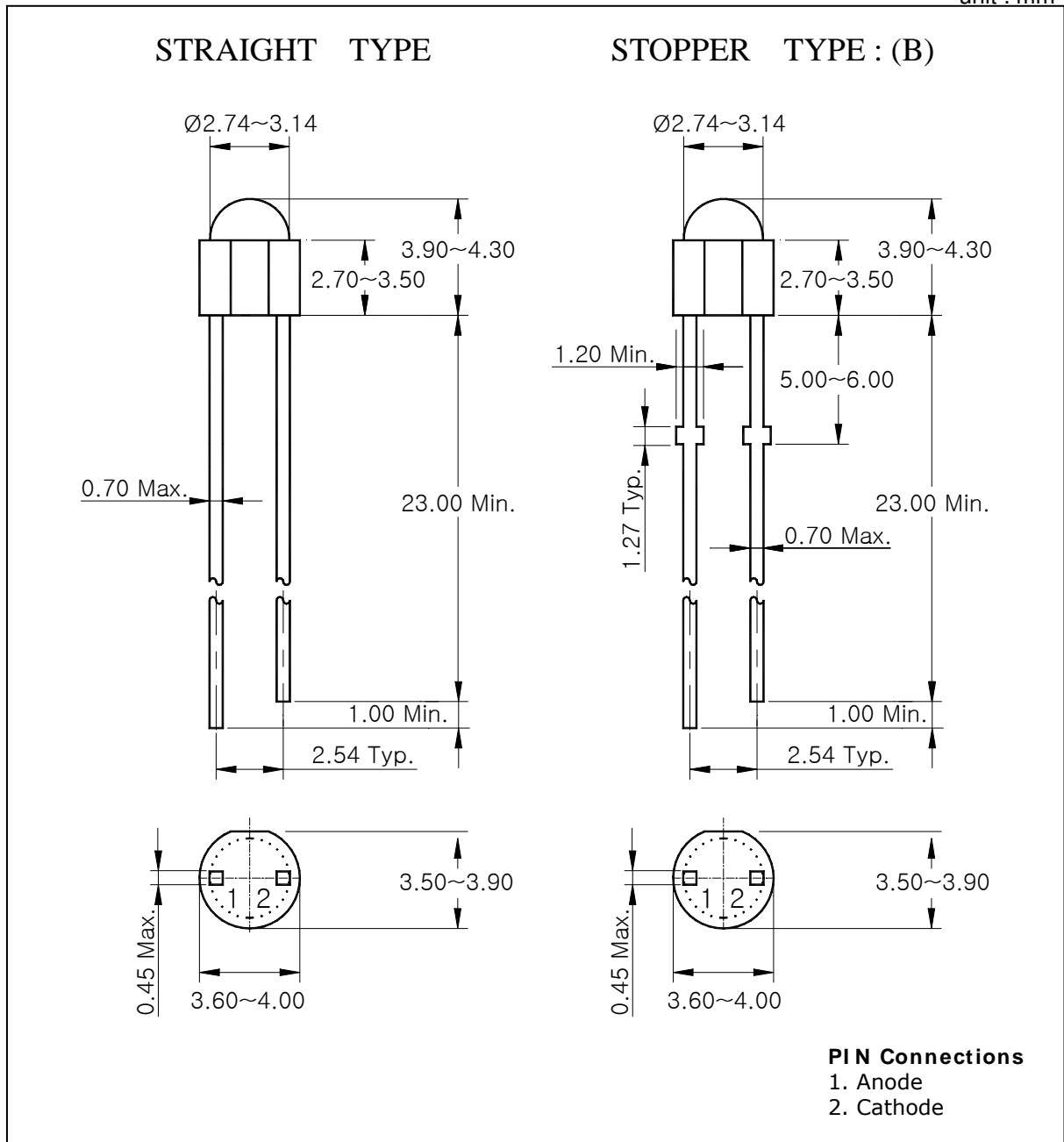
SY3318-V / SY3318-V(B)

1. Features

- ◆ Colorless transparency lens type
- ◆ $\phi 3\text{mm(T-1)}$ all plastic mold type
- ◆ Super luminosity

2. Outline Dimensions

unit : mm



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SY3318-V / SY3318-V(B)

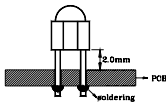
3. Absolute Maximum Ratings

(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	$I_F=20\text{mA}$	-	2.0	2.5	V
*3Luminous intensity	I_V	$I_F=20\text{mA}$	100	-	310	mcd
*4Dominan wavelength	λ_D	$I_F=20\text{mA}$	585	590	595	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	-	30	-	nm
Reverse current	I_R	$V_R=4\text{V}$	-	-	10	uA
*5Half angle	$\theta_{1/2}$	$I_F=20\text{mA}$	-	± 45	-	deg

*3. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$ *4. Dominant wavelength maximum tolerance for each grade classification limit is $\pm 5\text{nm}$ *5. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

*4. Luminous Intensity Classification

K	L	M	N
100 ~ 130	130 ~ 169	169 ~ 230	230~310

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5. Characteristic Diagrams

Fig. 1 $I_F - V_F$

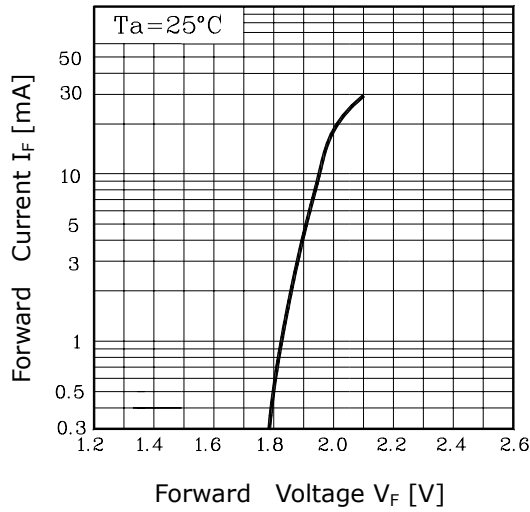


Fig. 2 $I_V - I_F$

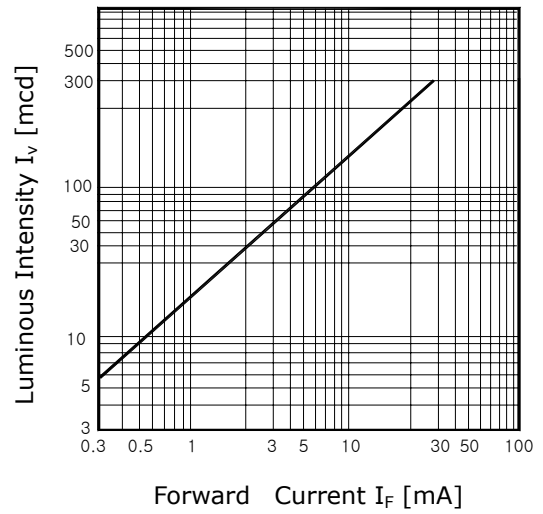


Fig. 3 $I_F - T_a$

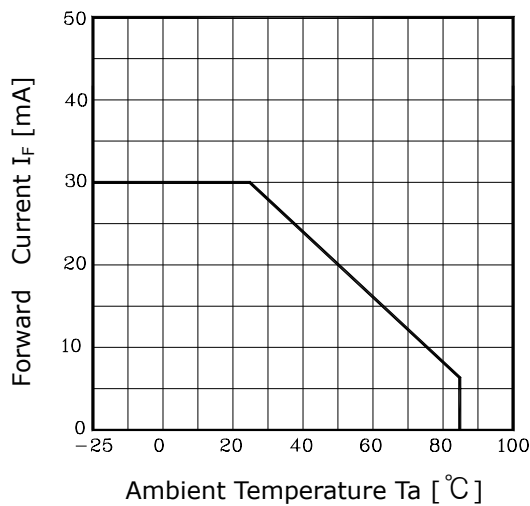


Fig.4 Spectrum Distribution

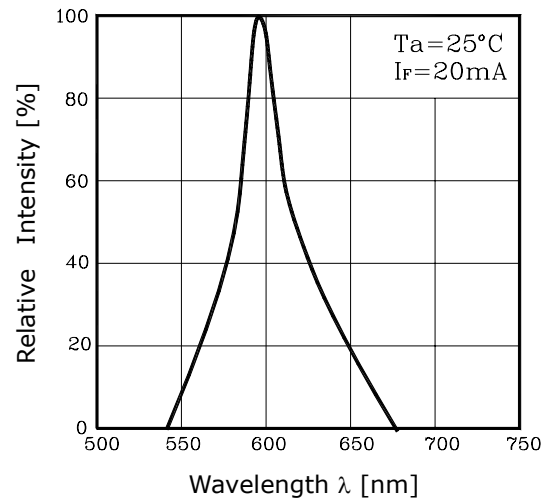
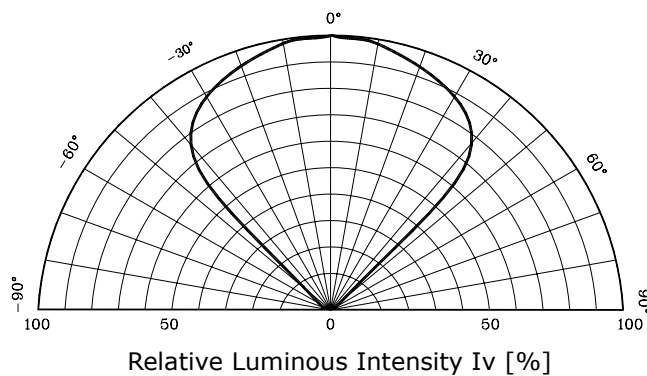


Fig. 5 Radiation Diagram



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