

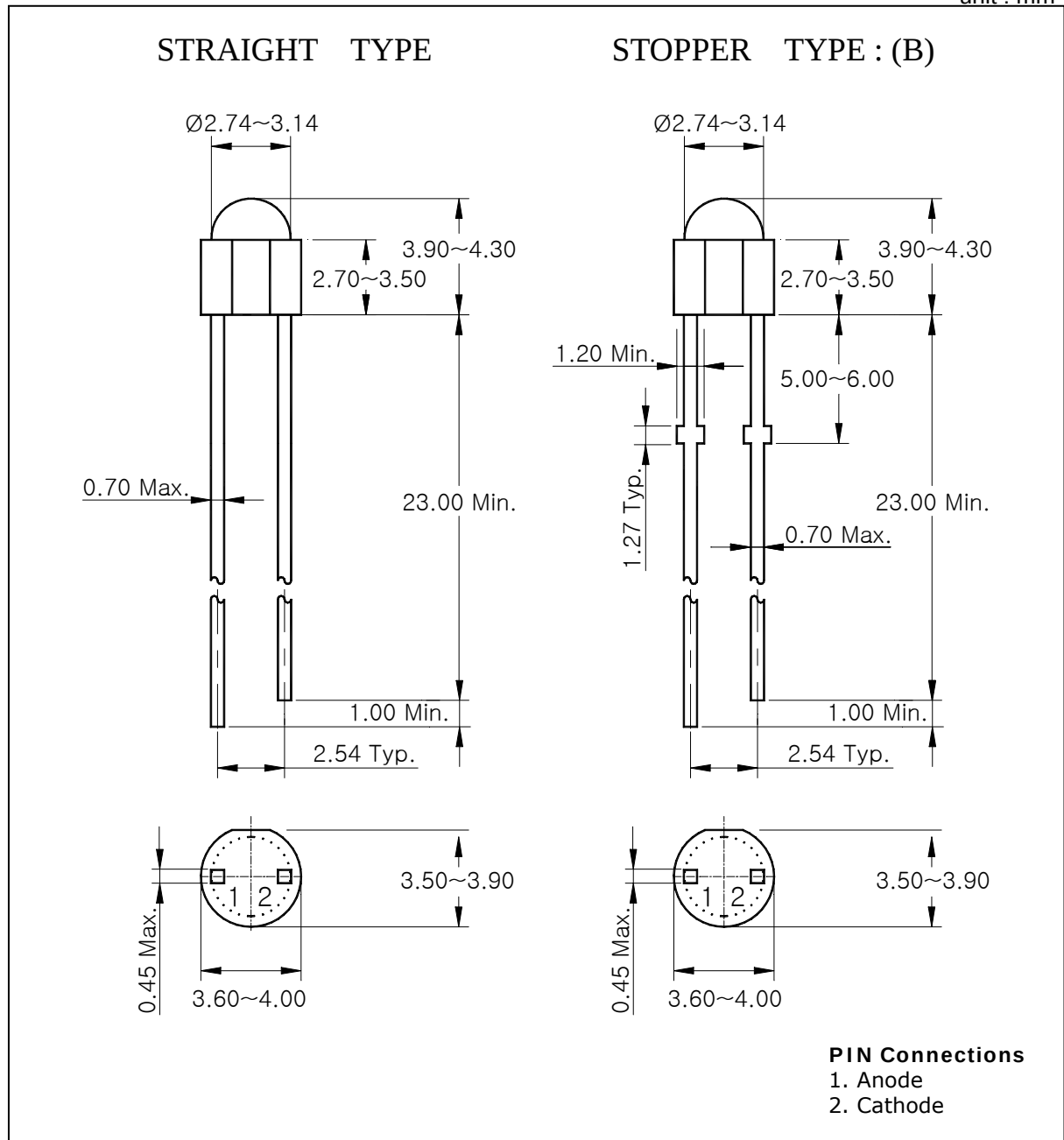
SY3318-V / SY3318-V(B)

1. Features

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

2. Outline Dimensions

unit : mm



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.

SY3318-V / SY3318-V(B)

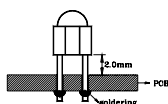
3. Absolute Maximum Ratings

(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

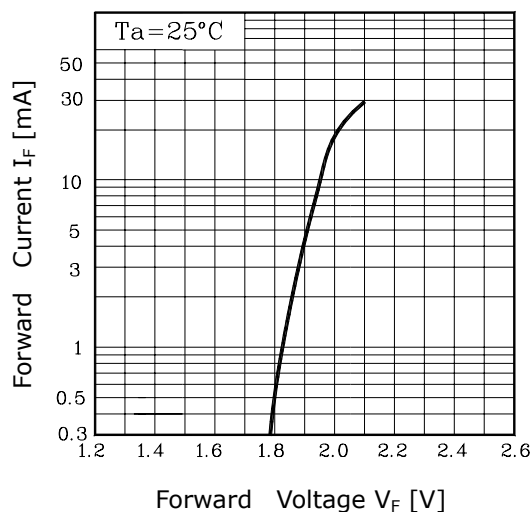
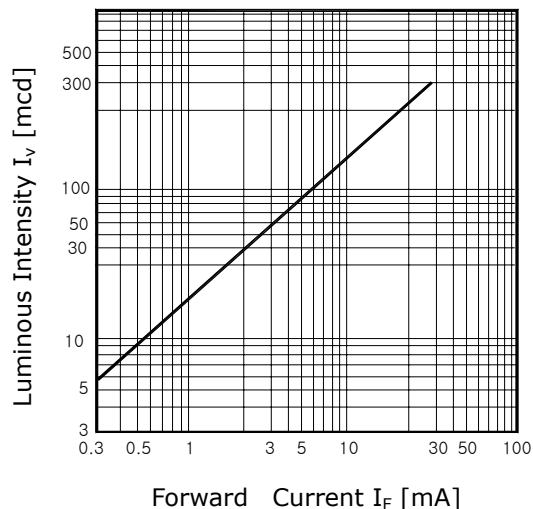
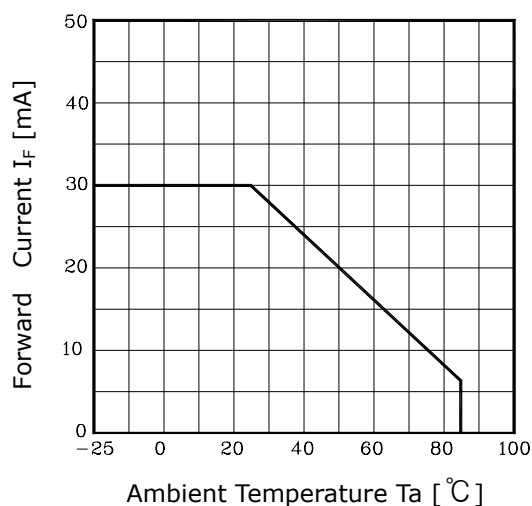
Fig. 1 $I_F - V_F$ Fig. 2 $I_V - I_F$ Fig. 3 $I_F - T_a$ 

Fig. 4 Spectrum Distribution

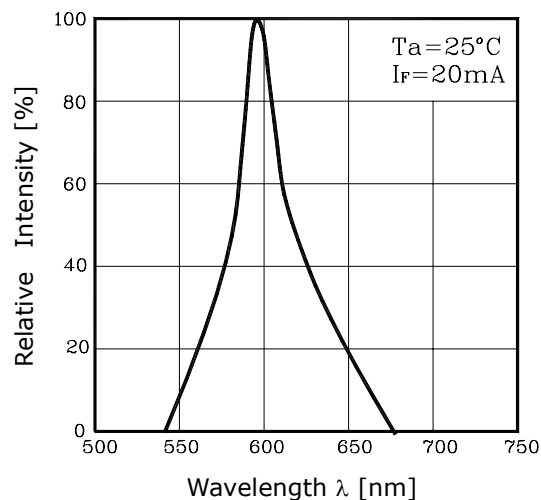
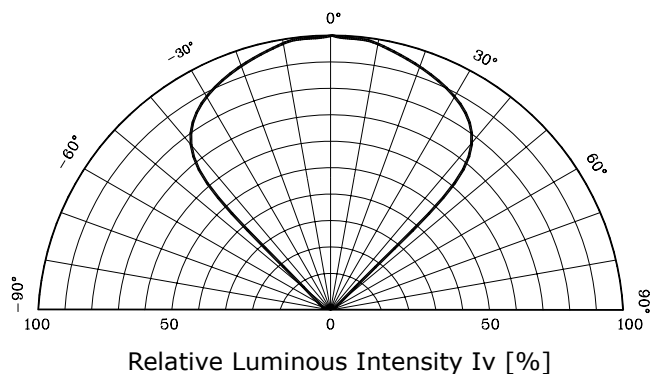


Fig. 5 Radiation Diagram



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