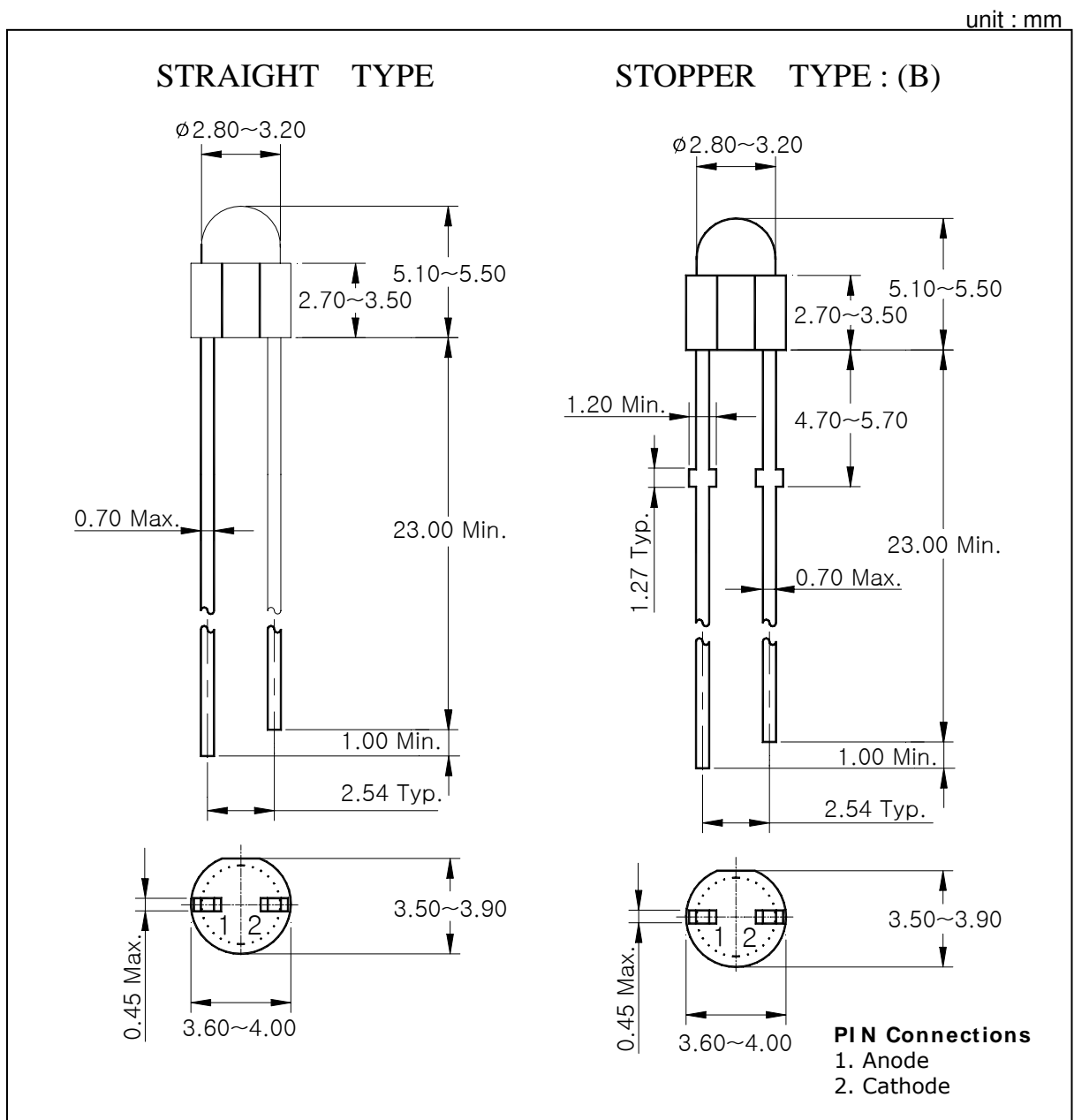


SR3517-V / SR3517-V(B)

1. Features

- ◆ Red colored diffusion lens type
- ◆  $\phi 3\text{mm(T-1)}$  all plastic mold type
- ◆ High luminosity

2. Outline Dimensions



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.

## SR3517-V / SR3517-V(B)

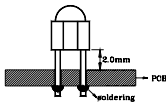
## 3. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	$P_D$	70	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	$V_F$	$I_F=20\text{mA}$	-	1.9	2.5	V
*4Luminous intensity	$I_V$	$I_F=20\text{mA}$	73	-	-	mcd
Peak wavelength	$\lambda_p$	$I_F=20\text{mA}$	-	660	-	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	-	20	-	nm
Reverse current	$I_R$	$V_R=4\text{V}$	-	-	10	uA
*3Half angle	$\theta_{1/2}$	$I_F=20\text{mA}$	-	$\pm 25$	-	deg

\*3.  $\theta_{1/2}$  is the off-axis angle where the luminous intensity is 1/2 the peak intensity

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5. Characteristic Diagrams

Fig. 1  $I_F - V_F$

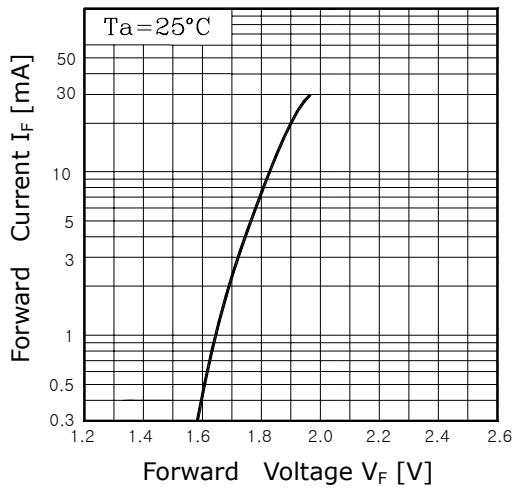


Fig. 2  $I_V - I_F$

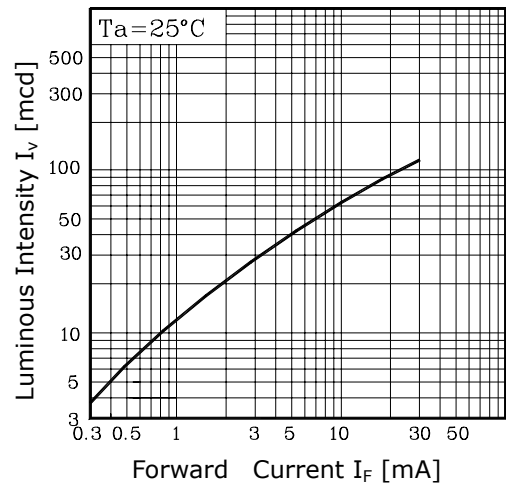


Fig. 3  $I_F - T_a$

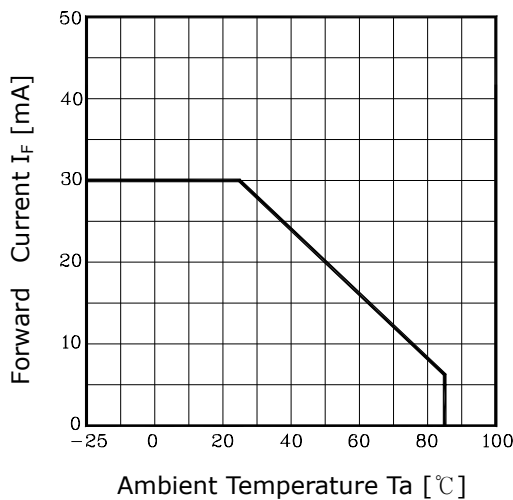


Fig.4 Spectrum Distribution

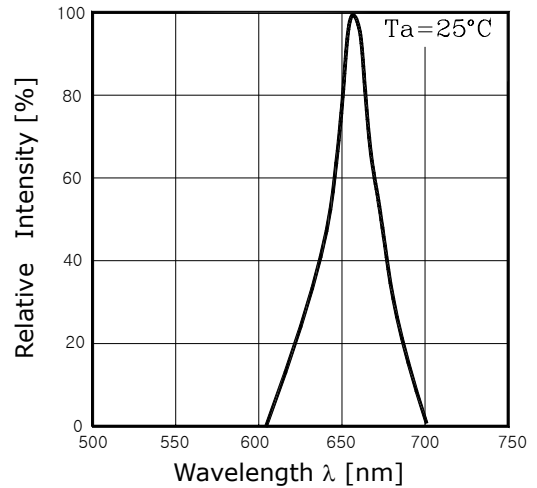
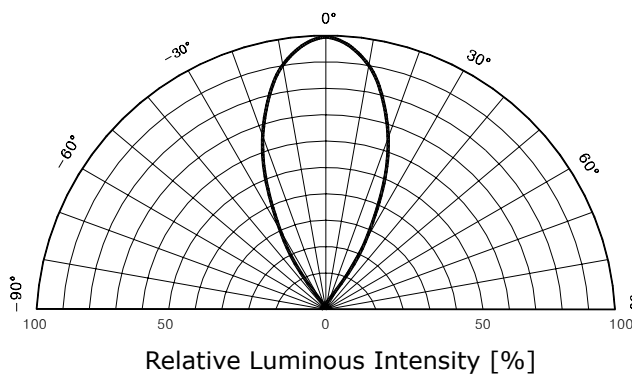


Fig. 5 Radiation Diagram



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