

SM3517(HF) / SM3517B(HF)

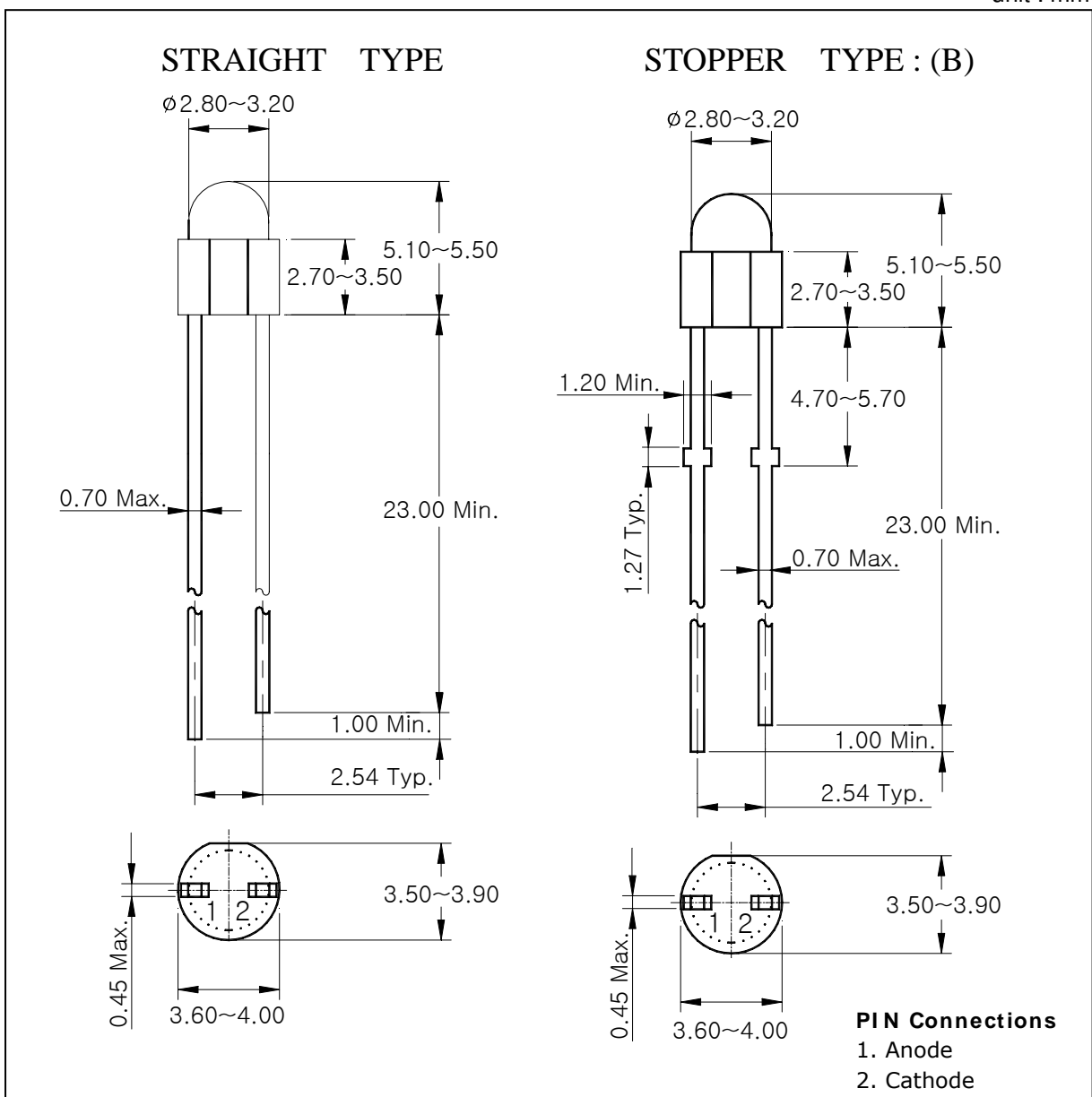
1. Features



- ◆ Green colored diffusion lens type
- ◆ $\phi 3\text{mm(T-1)}$ all plastic mold type
- ◆ Low power consumption
- ◆ Phthalates free

2. Outline Dimensions

unit : mm



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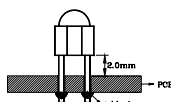
3. Absolute Maximum Ratings

(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	$I_F = 20\text{mA}$	-	2.2	2.5	V
*4Luminous intensity	I_V	$I_F = 20\text{mA}$	27	-	100	mcd
Peak wavelength	λ_P	$I_F = 20\text{mA}$	-	570	-	nm
Spectrum bandwidth	Δ_λ	$I_F = 20\text{mA}$	-	30	-	nm
Reverse current	I_R	$V_R = 4\text{V}$	-	-	10	uA
*3Half angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	± 25	-	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 $\pm 18\%$

*4. Luminous Intensity Classification

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

(Each I_V range did not consider a margin. Please refer to $\pm 18\%$ of it as a customer spec and Do not use to combine grade classification.

I t must be used separately grade classification)

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5. Characteristic Diagrams

Fig. 1 $I_F - V_F$

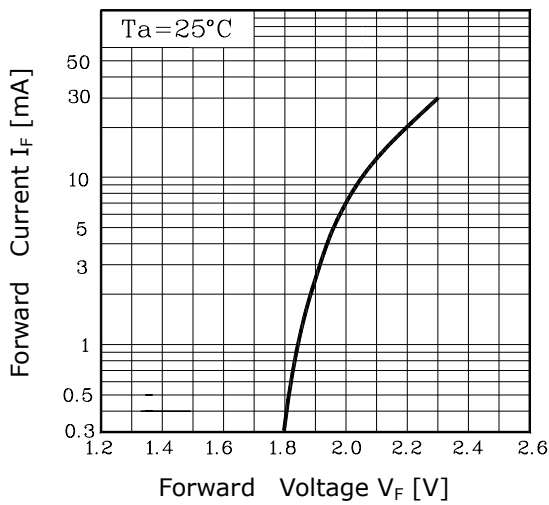


Fig. 2 $I_V - I_F$

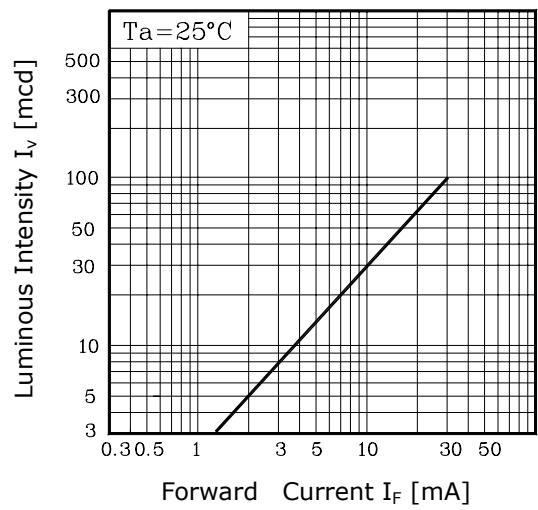


Fig. 3 $I_F - T_a$

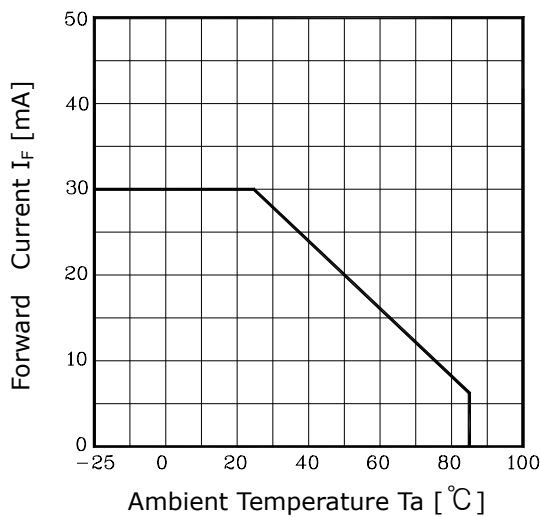


Fig.4 Spectrum Distribution

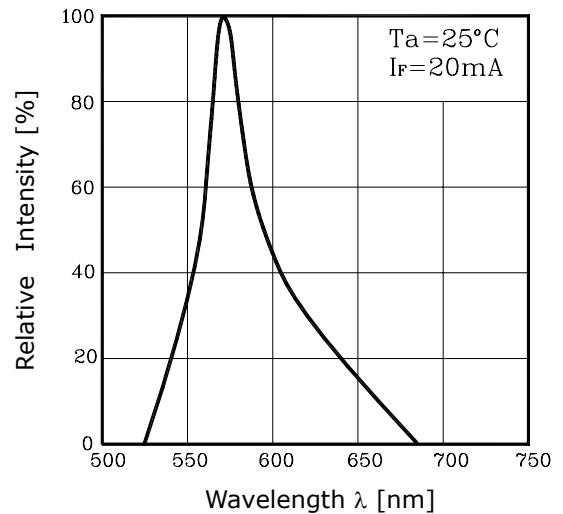
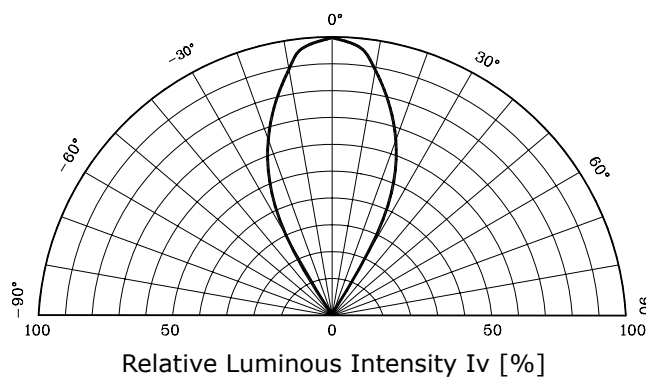


Fig. 5 Radiation Diagram



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