

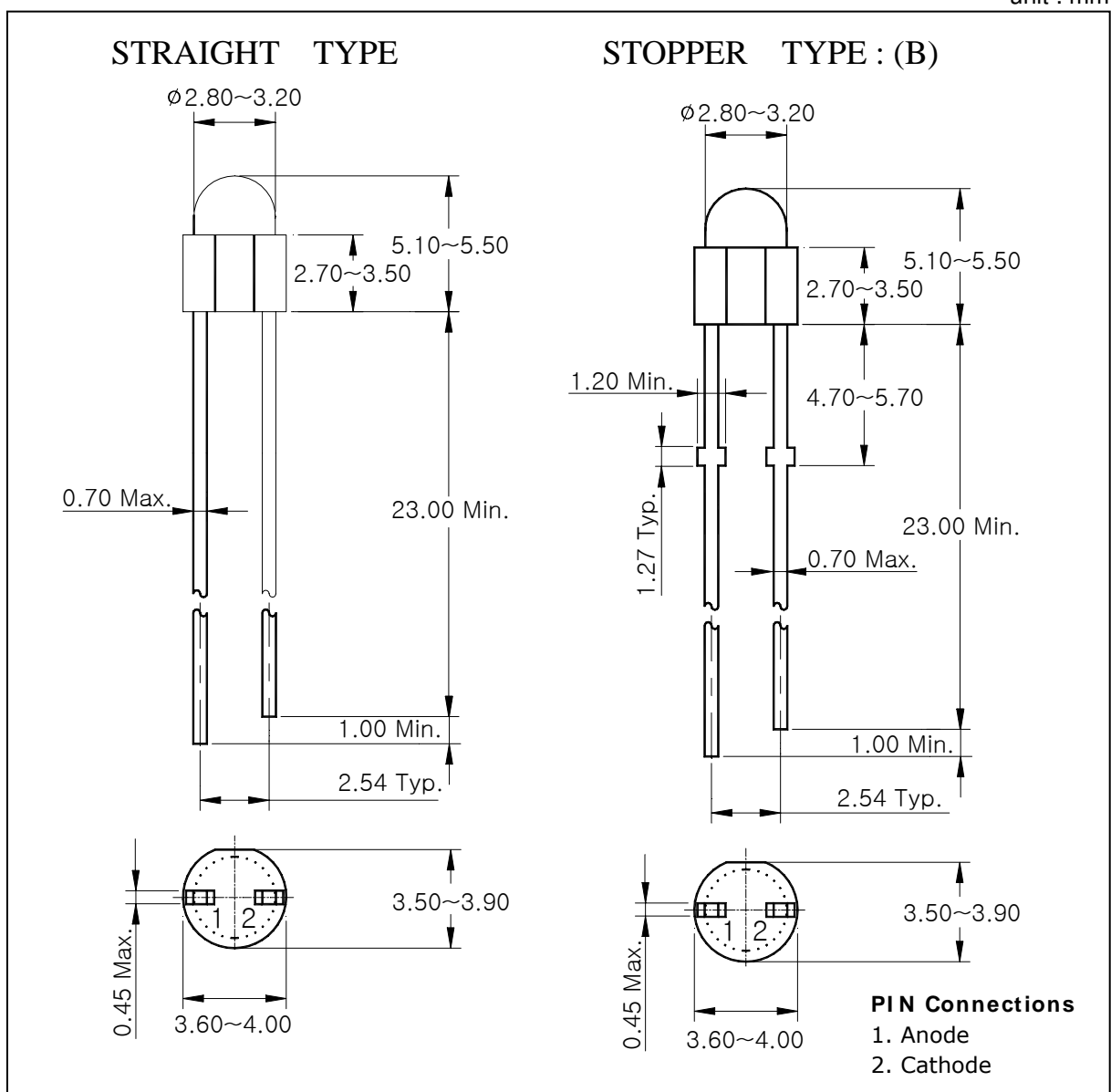
1. Features

- ◆ Green colored diffusion lens type
- ◆ φ3mm (T-1) all plastic mold type
- ◆ Low power consumption

PART NO	Material	Emitting Color	Lense Color
SM3517	GaP	Yellow Green	Green Diffused

2. Outline Dimensions

unit : mm



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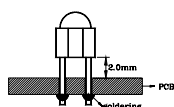
3. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	75	mW
Forward current	I_F	30	mA
*1 Peak 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
*2 Soldering 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
*4 Luminous intensity	I_V	$I_F=20\text{mA}$	27	-	100	mcd
Peak wavelength	λ_p	$I_F=20\text{mA}$	-	570	-	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	-	30	-	nm
Reverse current	I_R	$V_R=4\text{V}$	-	-	10	uA
*3 Half 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

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5. Characteristic Diagrams

Fig. 1 $I_F - V_F$

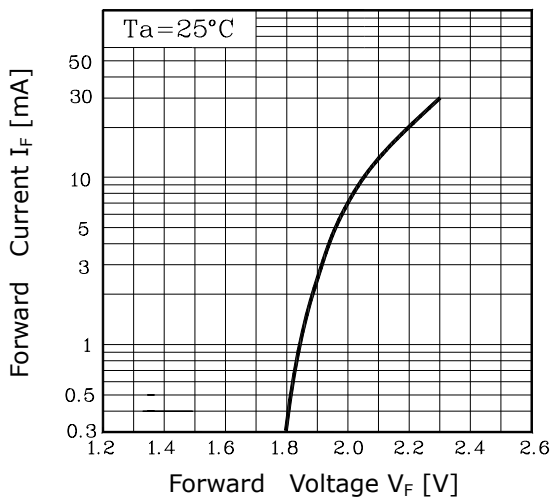


Fig. 2 $I_V - I_F$

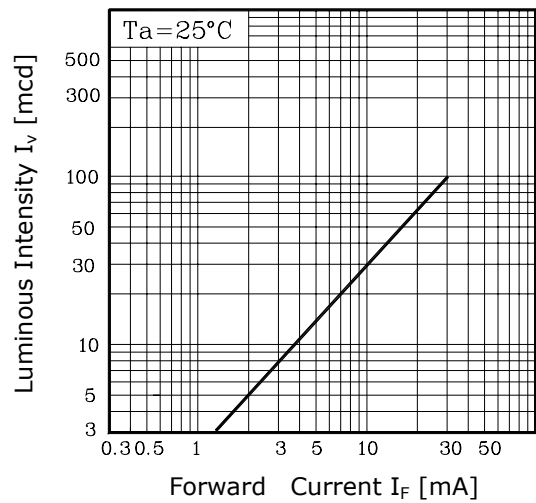


Fig. 3 $I_F - T_a$

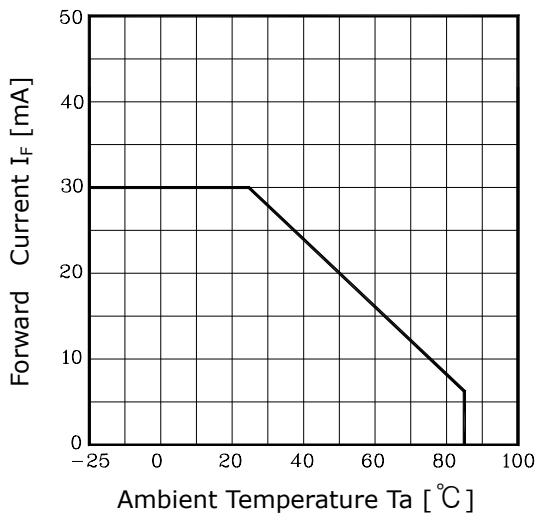


Fig. 4 Spectrum Distribution

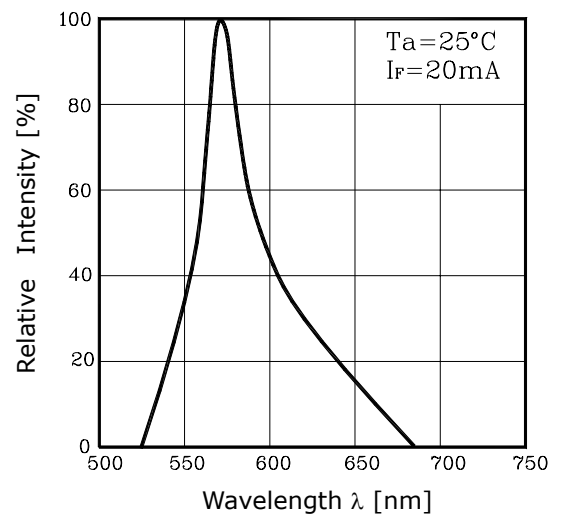
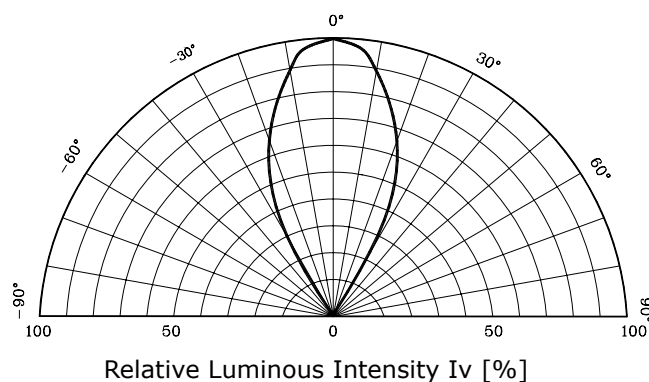


Fig. 5 Radiation Diagram



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