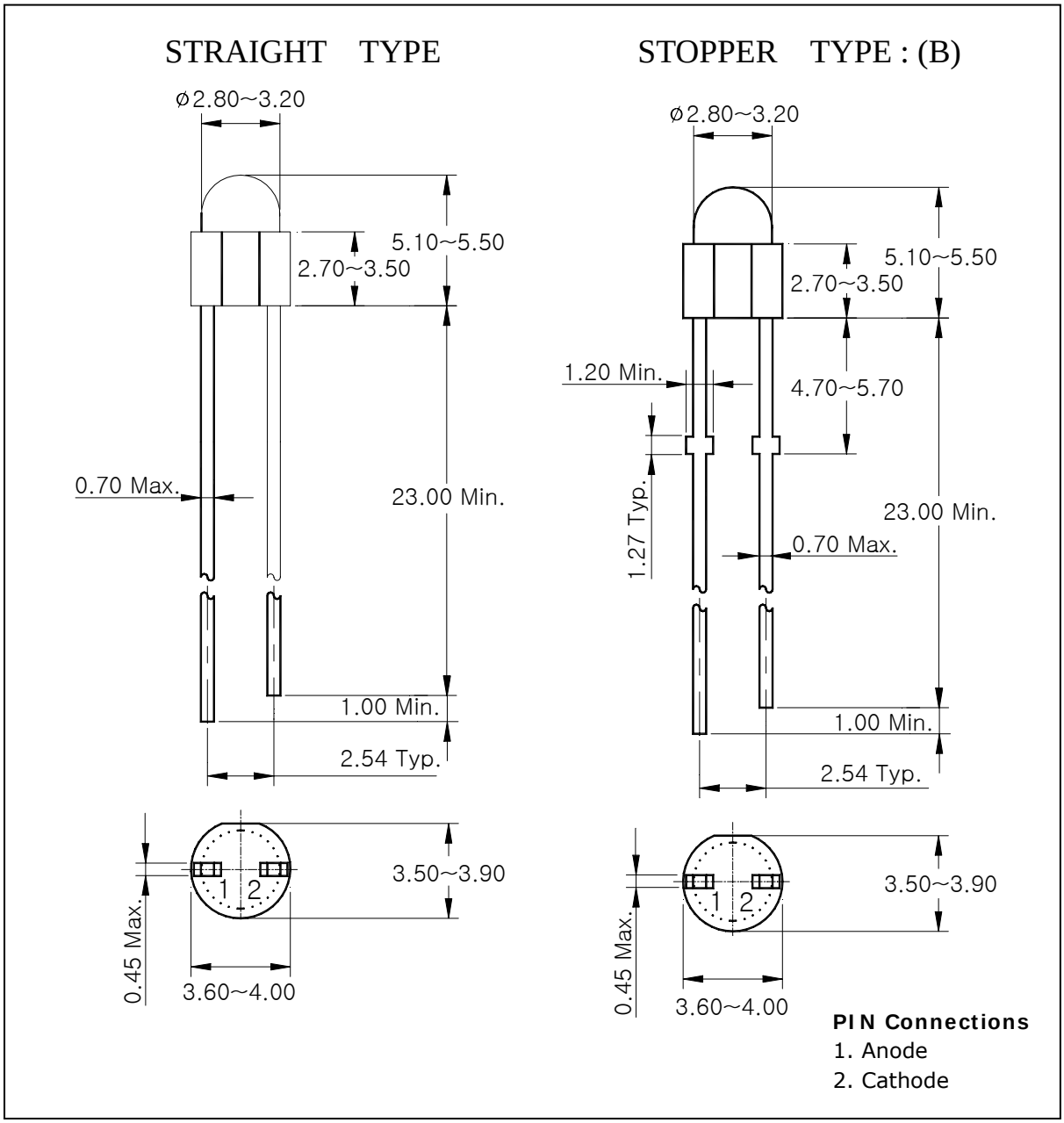
SM3317-L / SM3317-L(B)

1. Features

- ◆ ϕ3mm(T-1) all plastic mold type
- ◆ Available on tape and reel

2. Outline Dimensions

unit : mm



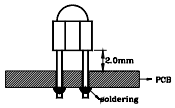
3. Absolute Maximum Ratings

(Ta=25℃)

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	℃
Storage temperature range	T_{stg}	-30～100	℃
*2Soldering temperature	T_{sol}	260℃ 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℃)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	V_F	I_F= 20mA	-	2.1	2.5	V
*4Luminous intensity	I_V	I_F= 20mA	100	-	350	mcd
Dominant wavelength	λ_D	I_F= 20mA	561	566	570	nm
Spectrum bandwidth	$\Delta\lambda$	I_F= 20mA	-	30	-	nm
Reverse current	I_R	V_R=4V	-	-	10	uA
*3Half angle	$\theta 1/2$	I_F= 20mA	-	±22	-	deg

*4. $\theta 1/2$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

*3. Luminous intensity maximum tolerance for each grade classification limit is ±18%

◆ I_V / λ_D Grade Classification (Ta=25℃)

Test Condition @I_F = 20mA	
Luminous Intensity [mcd]	Dominant Wavelength [nm]
L : 100~155	a : 561~564
M : 155~230	b : 564~567
N : 230~350	c : 567~570

(Do not use to combine grade classification. It must be used separately grade classification)

5. Characteristic Diagrams

Fig. 1 I_F - V_F

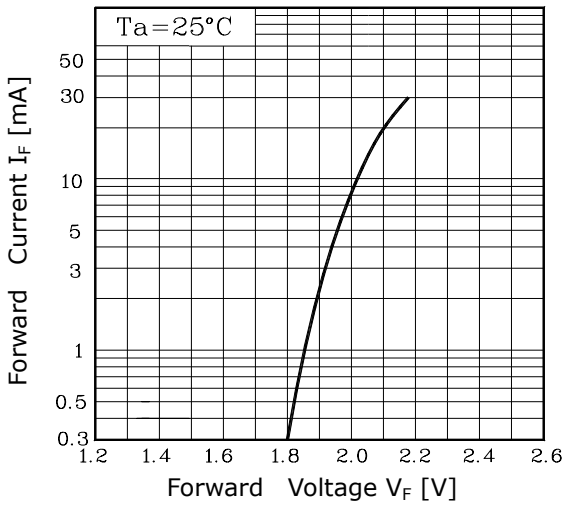


Fig. 2 I_V - I_F

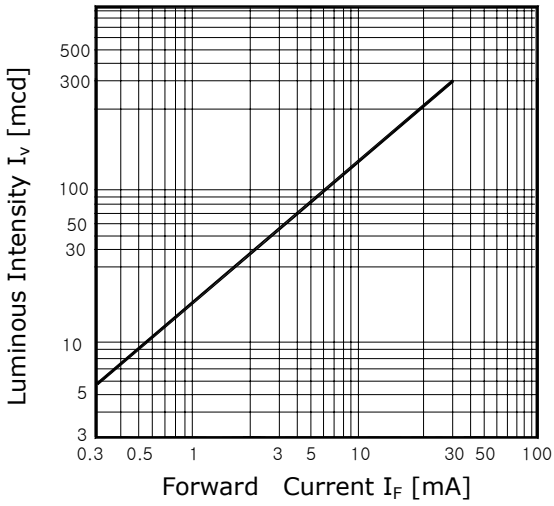


Fig. 3 I_F – Ta

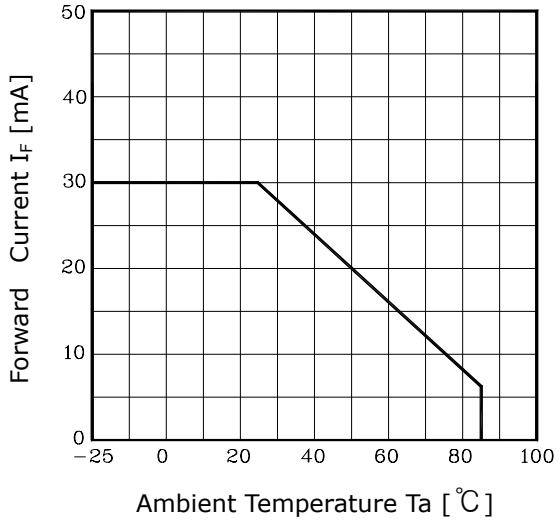


Fig.4 Spectrum Distribution

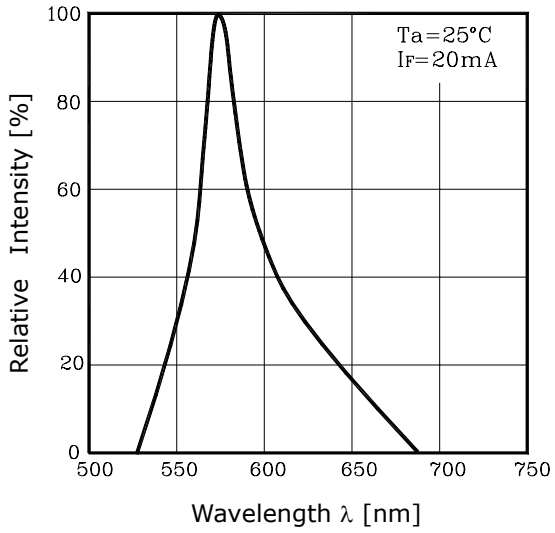
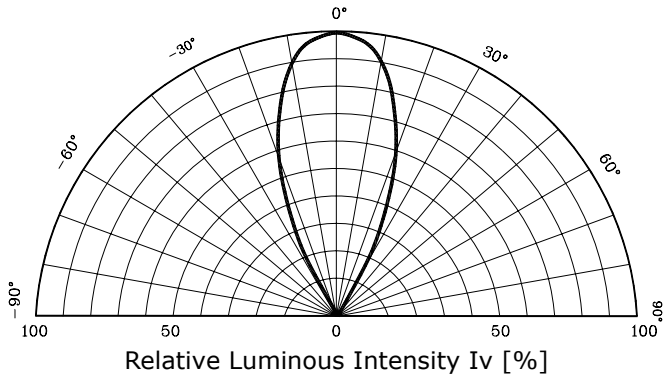


Fig. 5 Radiation Diagram



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.