AUK Semiconductor

SB3417 / SB3417(B)

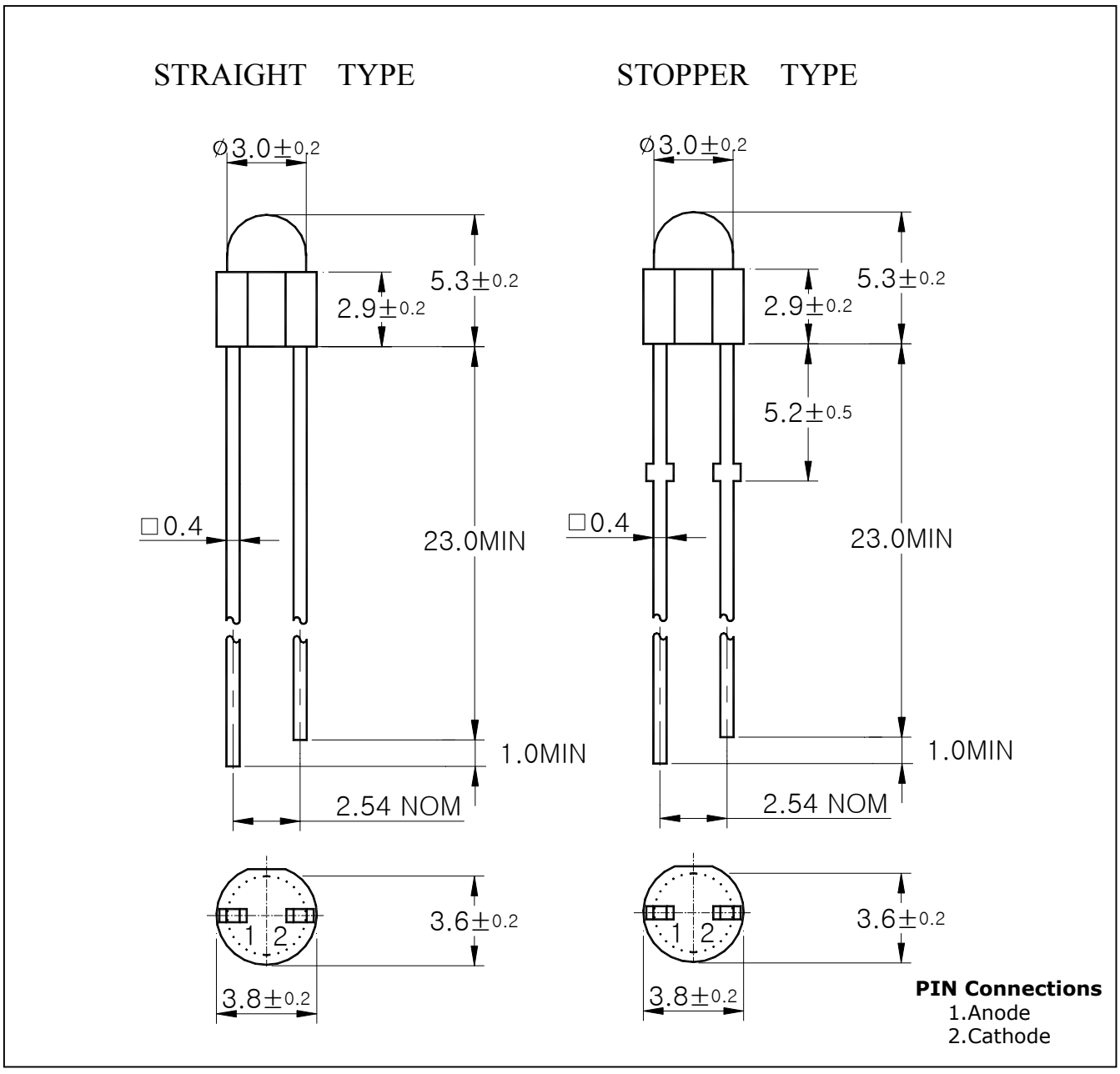
LED Lamp

Features

- Blue colored transparency lens type
- ϕ3mm(T-1) all plastic mold type

Outline Dimensions

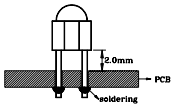
unit : mm



Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	85	mW
Forward Current	I_F	20	mA
*[1]Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25～85	℃
Storage Temperature	T_{stg}	-30～100	℃
*[2]Soldering Temperature	T_{sol}	260℃ for 5 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



Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F= 20mA	-	3.7	4.2	V
Luminous Intensity	I_V	I_F= 20mA	10	50	-	mcd
Peak Wavelength	λ_P	I_F= 20mA	-	435	-	nm
Spectrum Bandwidth	$\Delta\lambda$	I_F= 20mA	-	60	-	nm
Reverse Current	I_R	V_R=4V	-	-	10	uA
*[3]Half angle	$\theta 1/2$	I_F= 20mA	-	±17	-	deg

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

Characteristic Diagrams

Fig. 1 I_F - V_F

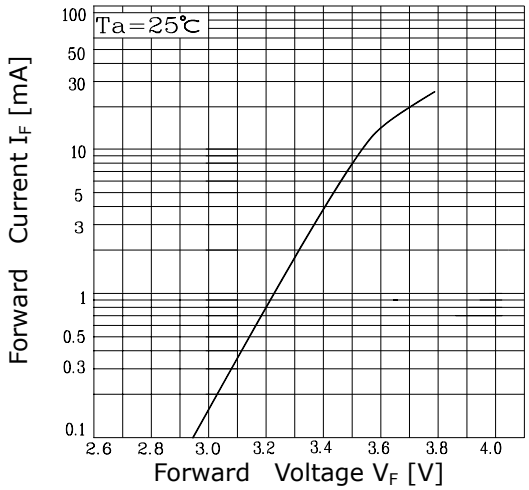


Fig. 2 I_V - I_F

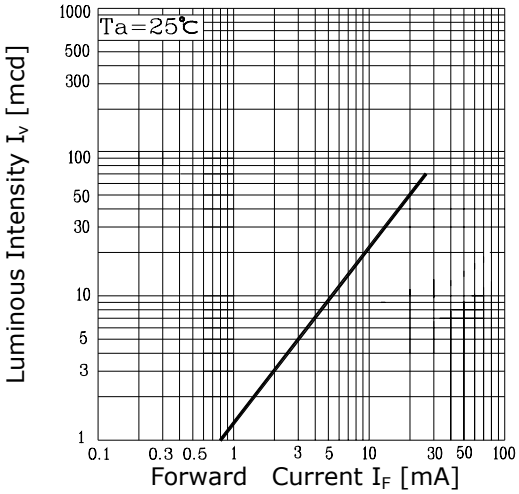


Fig. 3 I_F – Ta

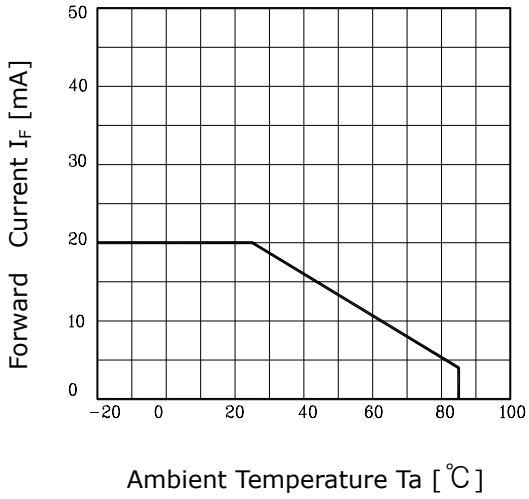


Fig.4 Spectrum Distribution

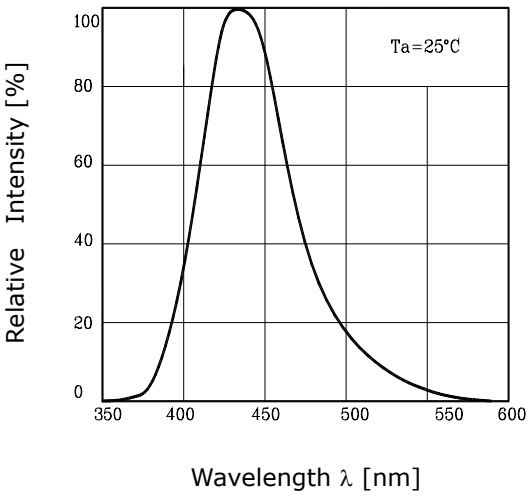


Fig. 5 Radiation Diagram

