AUK Semiconductor

SA2321-G

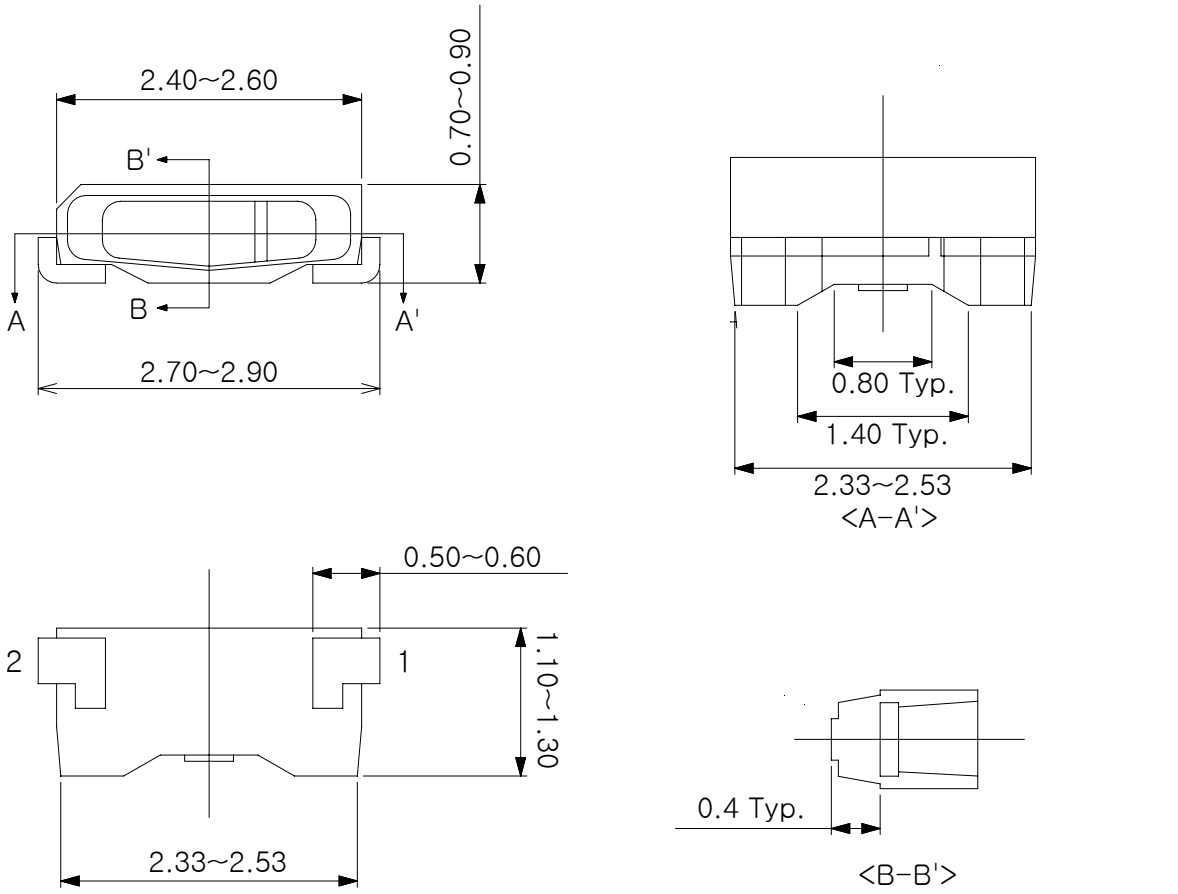
Side View LED

Features

- 2.8mm(L)×1.2mm(W) small size surface mount type
- Thin package of 0.8mm(H) thickness
- Transparency SMD side view type
- Wide viewing angle : 110^{O}

Outline Dimensions

unit : mm



PIN Connections
1. Anode
2. Cathode

Absolute Maximum Ratings

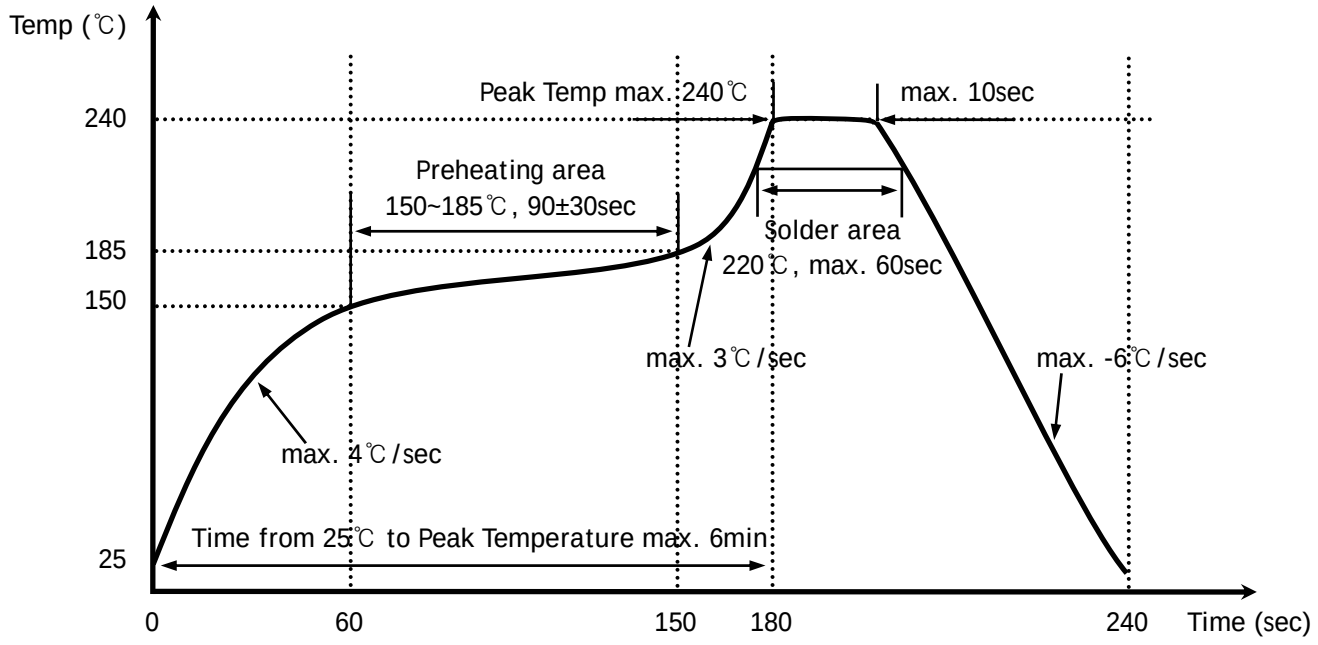
(Ta=25℃)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	60	mW
Forward current	I_F	25	mA
*1Peak forward current	I_{FP}	50	mA
Reverse voltage	V_R	4	V
Operating temperature range	T_{opr}	-30～85	℃
Storage temperature range	T_{stg}	-40～100	℃
*2Soldering temperature	T_{sol}	240℃ for 10 seconds	

*1.Duty ratio = 1/16, Pulse width = 0.1ms

*2. Recommended reflow soldering temperature profile

- Preheating 150℃ to 185℃ within 120 seconds soldering 240℃ within 10 seconds
  Gradual cooling (Avoid quenching)



Electrical / Optical Characteristics

(Ta=25℃)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	V_F	I_F= 20mA	-	2.15	2.5	V
*3Luminous intensity	I_V	I_F= 20mA	230	-	520	mcd
Dominant wavelength	λ_D	I_F= 20mA	617	621	627	nm
Spectrum bandwidth	$\Delta\lambda$	I_F= 20mA	-	35	-	nm
*4Half angle	$\theta 1/2$	I_F= 20mA		±55		deg

*3. Luminous intensity maximum tolerance for each grade classification limit is ±18%
(The test result of I_F=20mA is only for reference)

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

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

Test Condition @ I_F = 20mA	
Luminous Intensity [mcd]	Dominant Wavelength [nm]
N : 230~350	a : 617~621
O : 350~520	b : 621~627

Electrical Characteristic Curves

Fig. 1 I_F - V_F

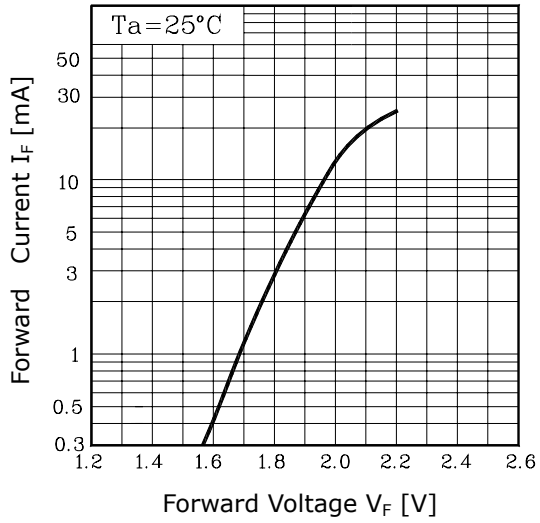


Fig. 2 I_V - I_F

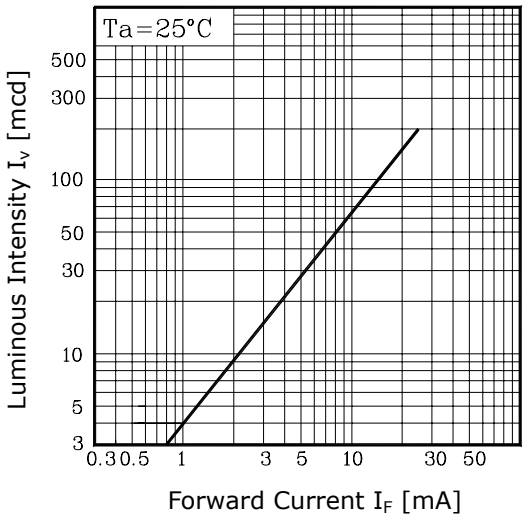


Fig. 3 I_F – Ta

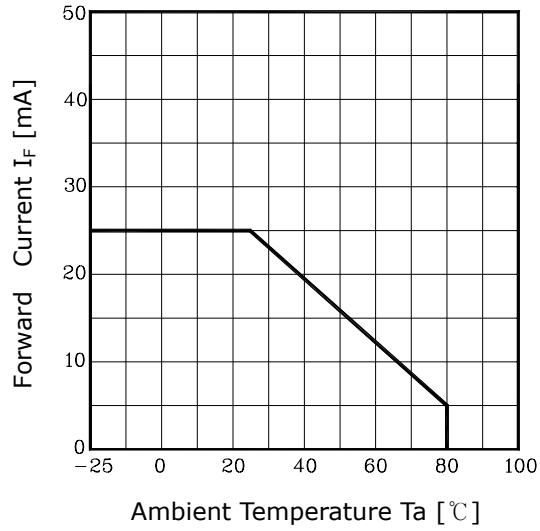


Fig.4 Spectrum Distribution

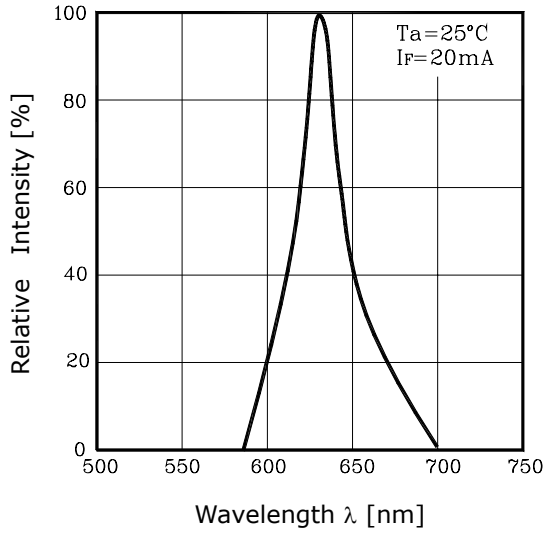
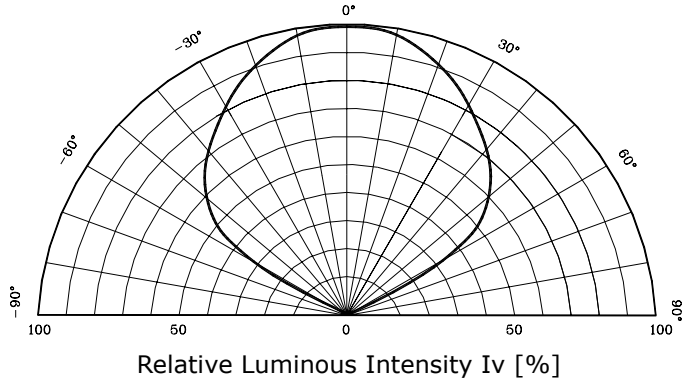


Fig. 5-1 Radiation Diagram(X)



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