AUK Semiconductor

SB2335-G

High Brightness Chip LED Lamp

Features

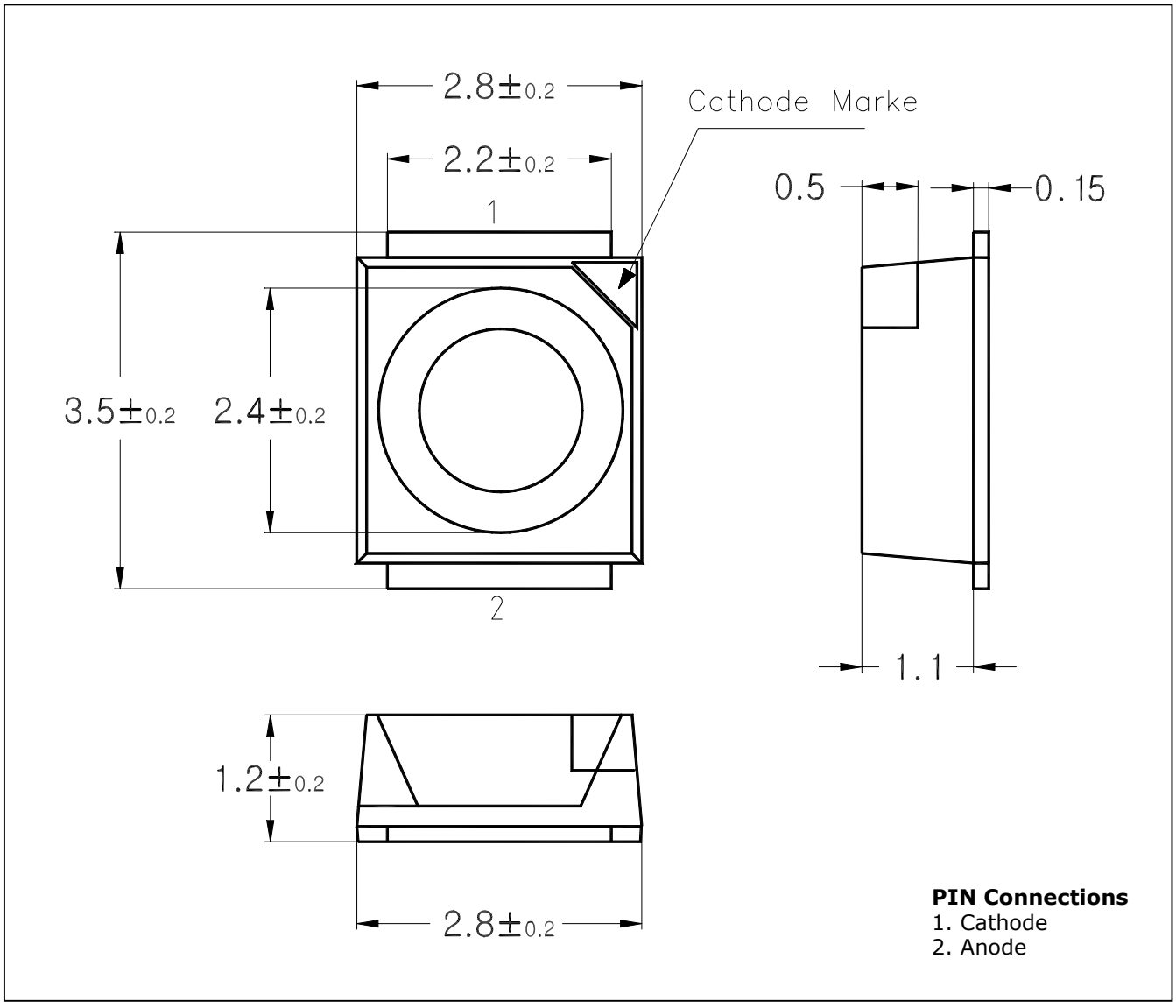
- Colorless transparency lens type
- Compact type
- Radiation size 3.5mm ×2.8mm
- Surface mount lead configuration

Applications

- LCD backlighting
- Keypad backlighting
- Symbol backlighting
- Front panel indicator lamp

Outline Dimensions

unit : mm



PIN Connections
1. Cathode
2. Anode

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	80	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}	-40～100	℃
Storage Temperature	T_{stg}	-40～110	℃
*[2]Soldering Temperature	T_{sol}	240℃ for 5 seconds	

*1.Duty ratio = 1/16, Pulse width = 0.1ms
*2.Recommended soldering condition ⇒ Attached

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F= 20mA	2.6	3.3	4.2	V
*[3]Luminous Intensity	I_V	I_F= 20mA	68	80	155	mcd
Peak Wavelength	λ_P	I_F= 20mA	-	468	-	nm
Spectrum Bandwidth	$\Delta\lambda$	I_F= 20mA	-	20	-	nm
Reverse Current	I_R	V_R=4V	-	-	10	μA
*[4]Half angle	θ1/2	I_F= 20mA	-	±55	-	deg

*3. θ1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

*4. Luminous intensity maximum tolerance for each grade classification limits ±18%

*4. Luminous Intensity classification

K	L
68~100	100~155

Characteristic Diagrams

Fig. 1 I_F - V_F

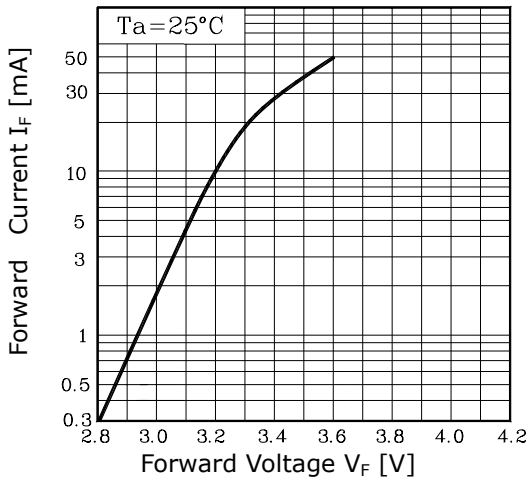


Fig. 2 I_V - I_F

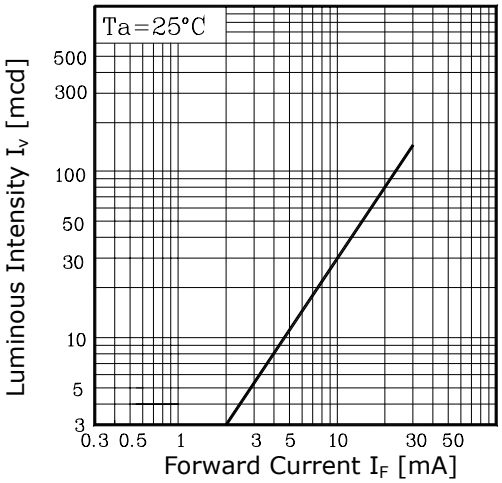


Fig. 3 I_F – Ta

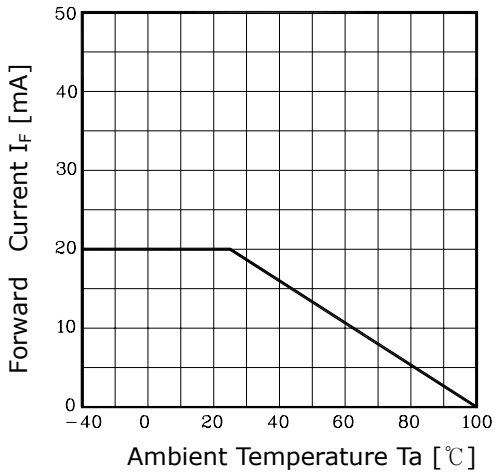


Fig.4 Spectrum Distribution

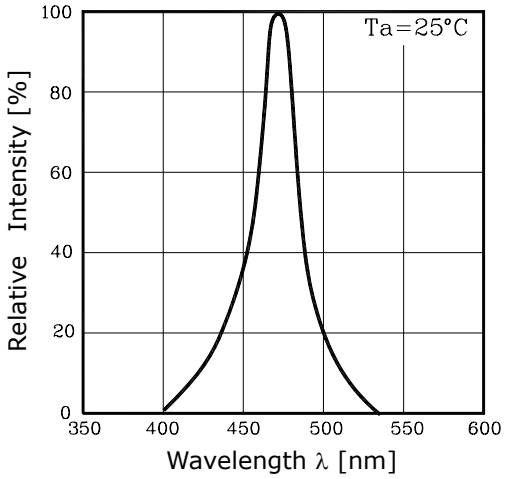
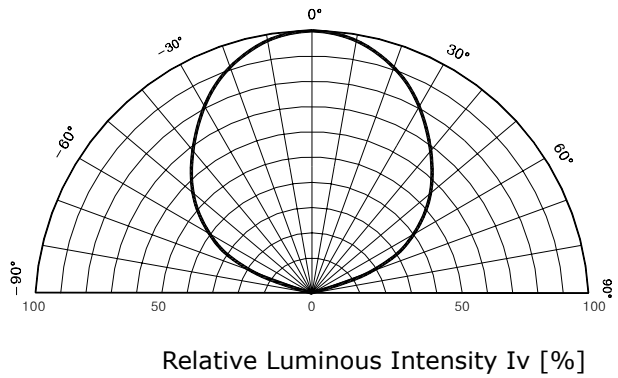


Fig. 5 Radiation Diagram



These AUK products are intended for usage in general electronic equipments(Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.