AUK Semiconductor

SB2434-H

High Brightness LED Lamp

Features

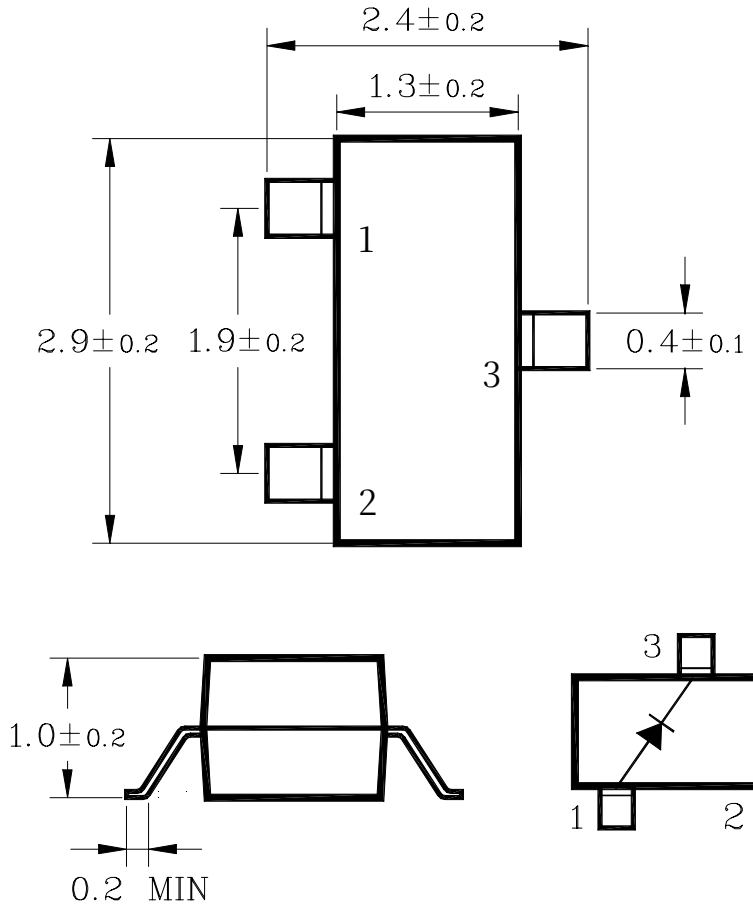
- Blue colored transparency lens type
- Compact type
- Radiation size 1.3mm × 2.9mm
- Surface mount lead configuration
- High luminosity

Applications

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

Outline Dimensions

unit : mm



PIN Connections
1.Anode
2.Nc
3.Cathode

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	40	mW
Forward Current	I_F	10	mA
*1Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25 80	℃
Storage Temperature	T_{stg}	-30 100	℃
*2Soldering Temperature	T_{sol}	240℃ for 5 seconds	

*1.Duty ratio = 1/16, Pulse width = 0.1ms
*2.Preheating 100℃~150℃, within 2 minutes soldering 240℃±5℃, within 5 seconds

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
*3Forward Voltage	V_F	I_F= 10mA	-	3.4	4.0	V
*4Luminous Intensity	I_V	I_F= 10mA	8	18	-	mcd
Peak Wavelength	λ_P	I_F= 10mA	-	470	-	nm
Spectrum Bandwidth	$\Delta\lambda$	I_F= 10mA	-	26	-	nm
Reverse Current	I_R	V_R=4V	-	-	10	μA
*5Half angle	θ1/2	I_F= 10mA	-	±55	-	deg

*3. Pulse Time : 1ms *4. Pulse Time : 3ms
*5. θ1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

Characteristic Diagrams

Fig. 1 I_F - V_F

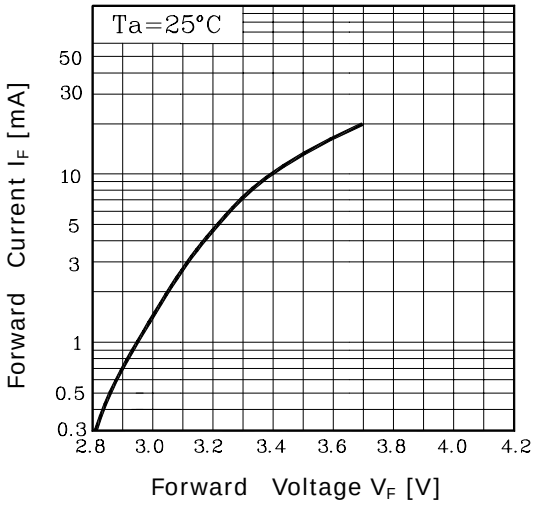


Fig. 2 I_V - I_F

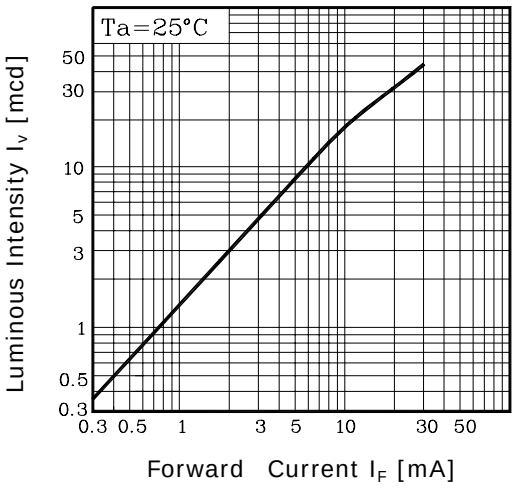


Fig. 3 I_F – Ta

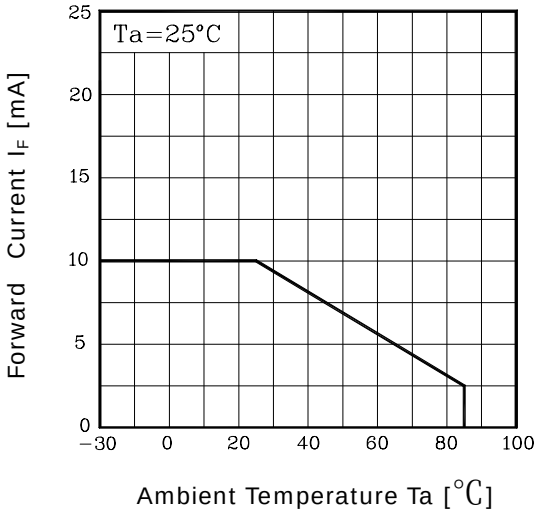


Fig.4 Spectrum Distribution

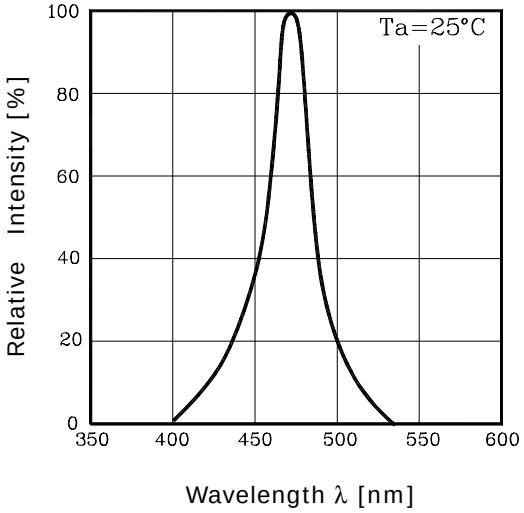


Fig. 5 Radiation Diagram