AUK Semiconductor

SR2332-V

Chip LED

Features

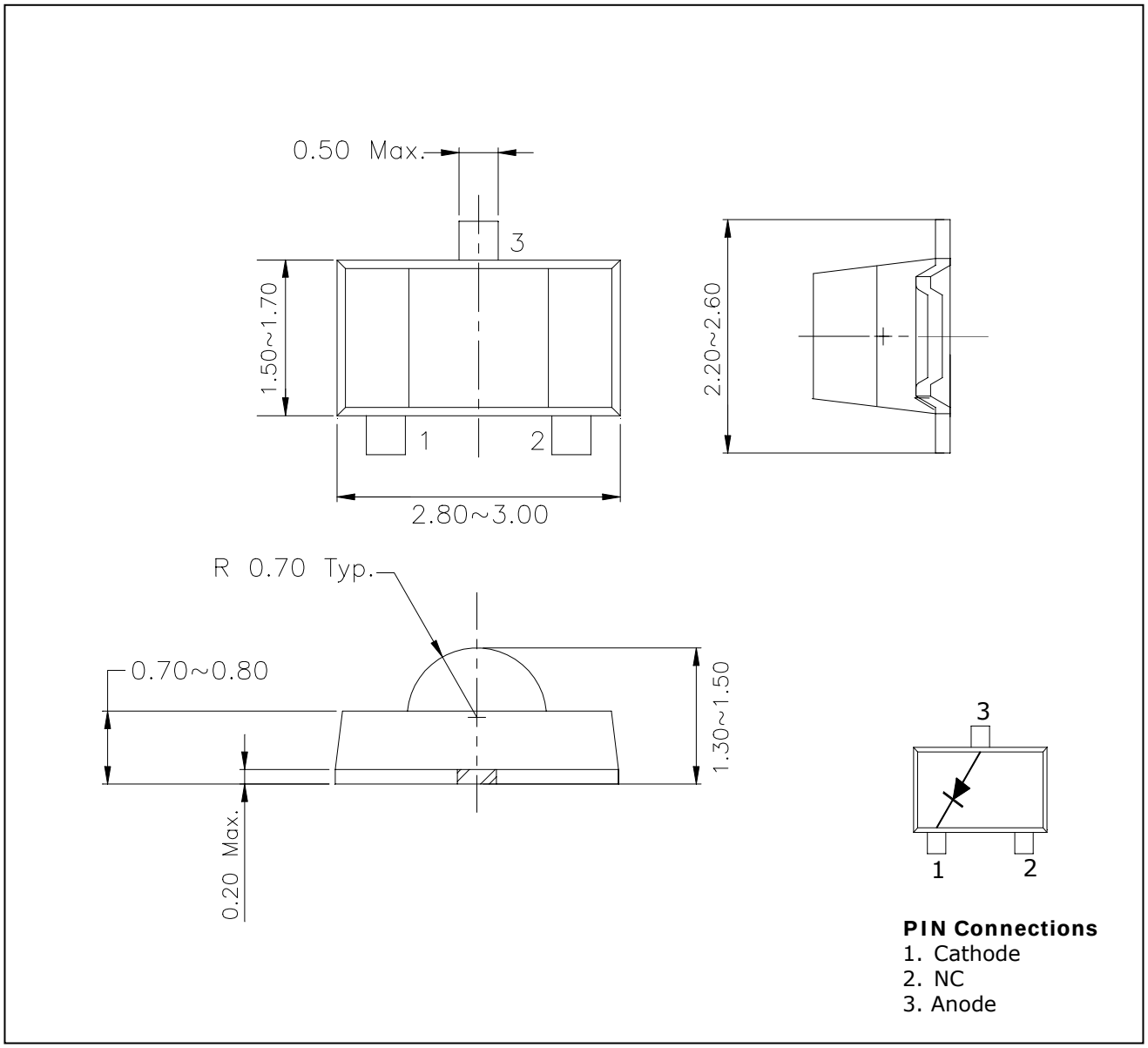
- Colorless transparency lens type
- Compact type
- Radiation size 2.9mm(L)×1.6mm(W) surface mount type
- High luminosity

Applications

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

Outline Dimensions

unit : mm



PIN Connections
1. Cathode
2. NC
3. Anode

Absolute Maximum Ratings

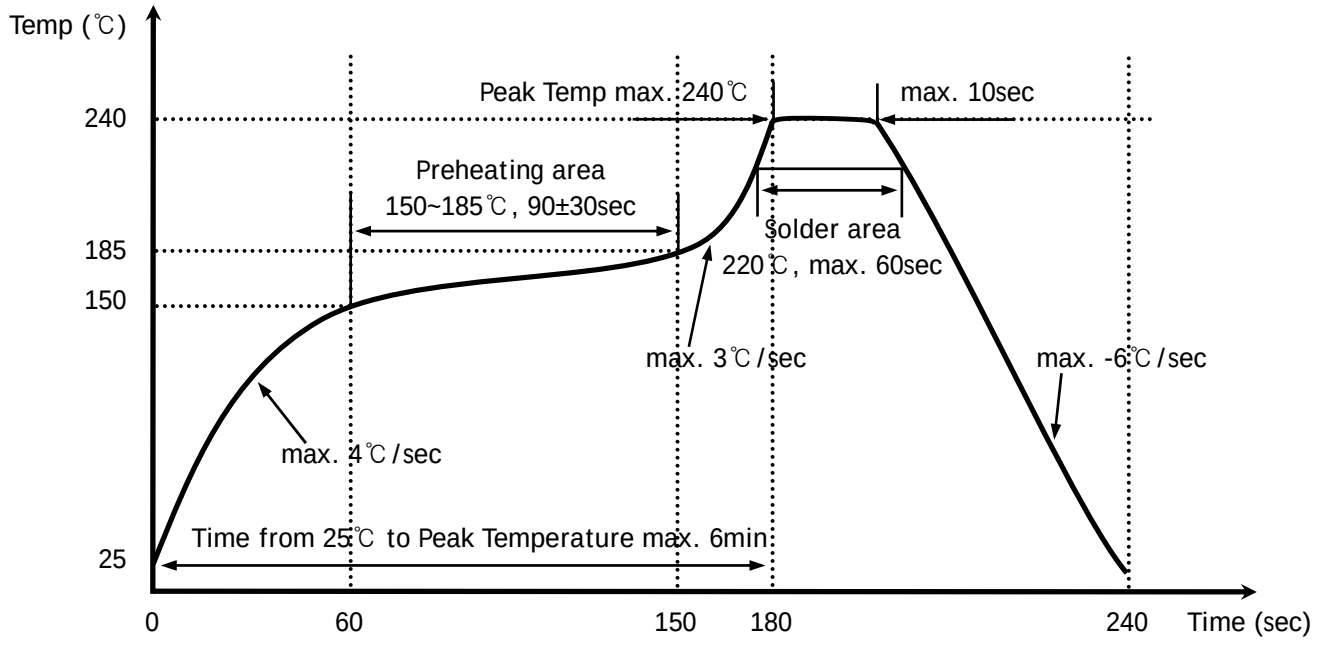
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	63	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}	-20～80	°C
Storage temperature range	T_{stg}	-25～85	°C
*2Soldering temperature	T_{sol}	240°C 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°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	I_F= 20mA	-	2.0	2.5	V
Luminous intensity	I_V	I_F= 20mA	43	-	-	mcd
Peak wavelength	λ_P	I_F= 20mA	-	660	-	nm
Spectrum bandwidth	$\Delta\lambda$	I_F= 20mA	-	20	-	nm
Reverse current	I_R	V_R=4V	-	-	10	uA
*3 Half angle	$\theta 1/2$	I_F= 20mA	-	±60	-	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

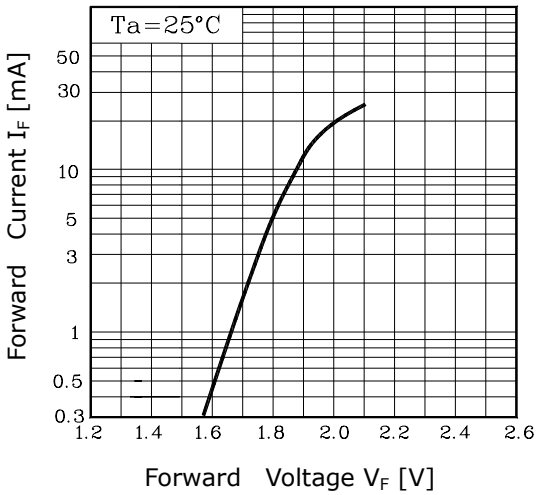


Fig. 2 I_V - I_F

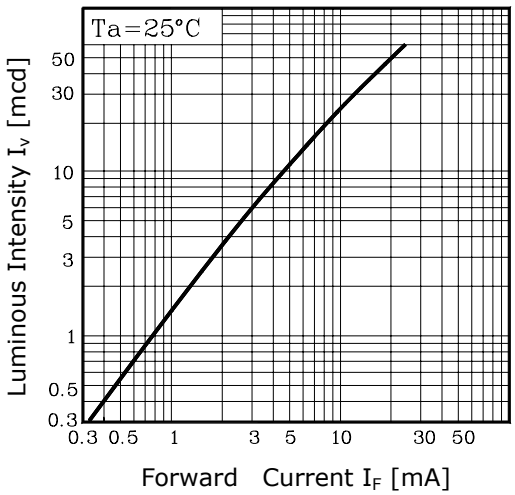


Fig. 3 I_F – Ta

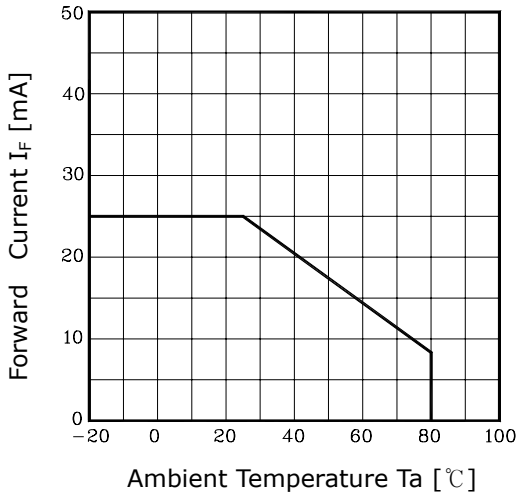


Fig.4 Spectrum Distribution

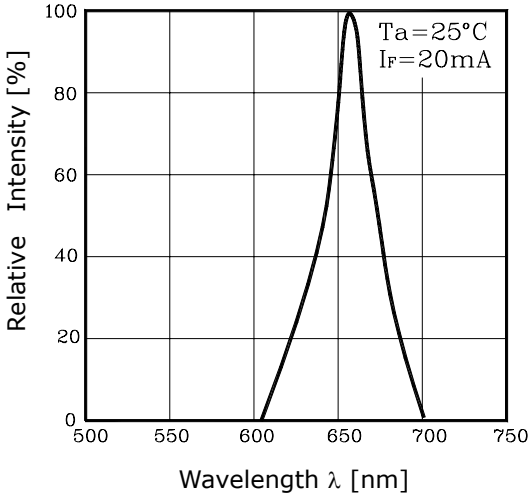
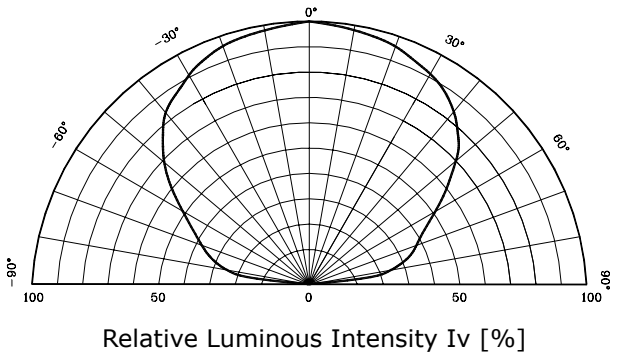


Fig. 5-1 Radiation Diagram



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