AUK Semiconductor

SM2332

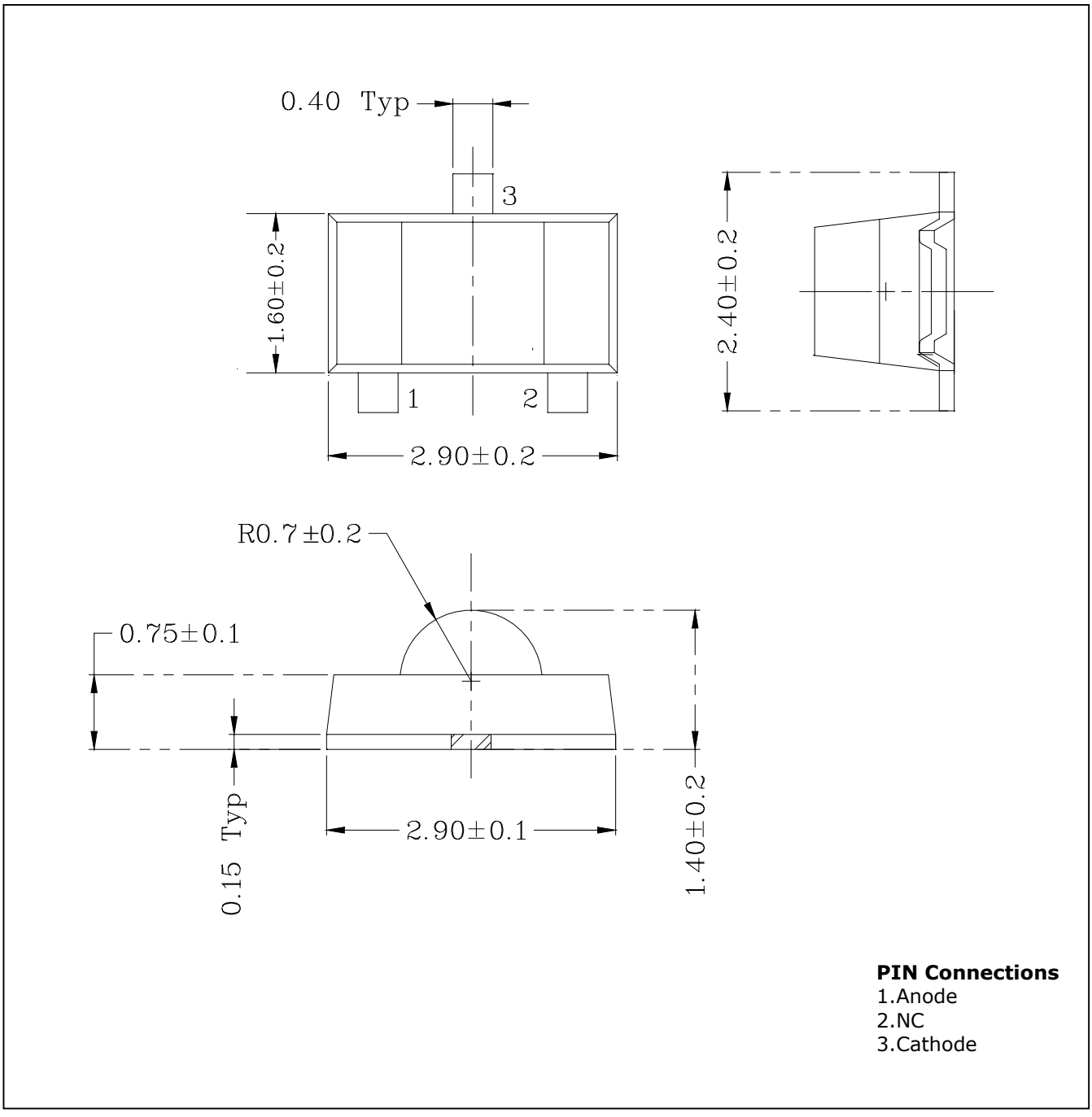
LED Lamp

Features

- Colorless transparency lens type
- Compact type
- Radiation size 1.5mm × 2.9mm
- Surface mount lead configuration

Outline Dimensions

unit : mm



PIN Connections
1.Anode
2.NC
3.Cathode

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	70	mW
Forward Current	I_F	25	mA
*[1]Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25～80	℃
Storage Temperature	T_{stg}	-30～100	℃
*[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	-	2.1	2.8	V
Luminous Intensity	I_V	I_F= 20mA	-	12	-	mcd
Peak Wavelength	λ_P	I_F= 20mA	-	570	-	nm
Spectrum Bandwidth	$\Delta\lambda$	I_F= 20mA	-	30	-	nm
Reverse Current	I_R	V_R=4V	-	-	10	uA
*[3]Half angle	θ1/2	I_F= 20mA	-	±60	-	deg

*3. 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

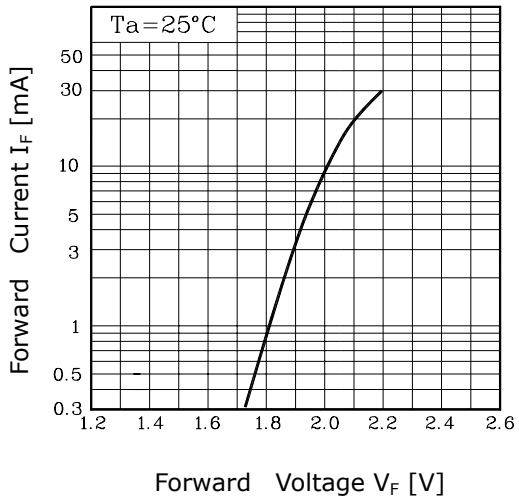


Fig. 2 I_V - I_F

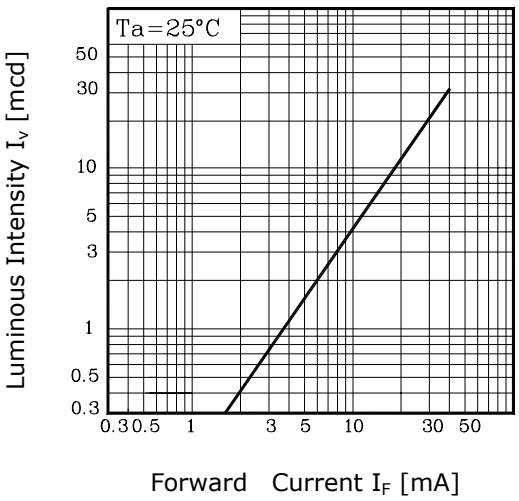


Fig. 3 I_F – Ta

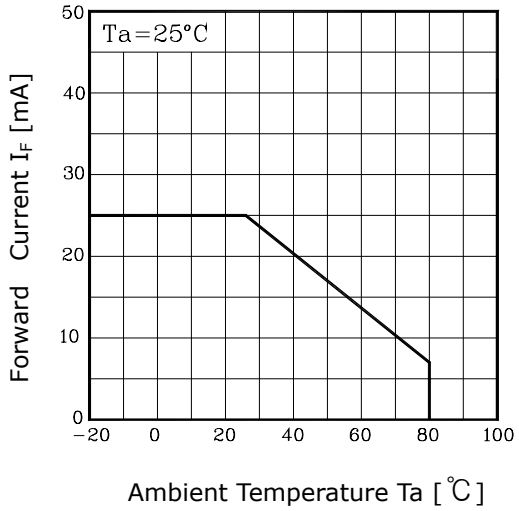


Fig.4 Spectrum Distribution

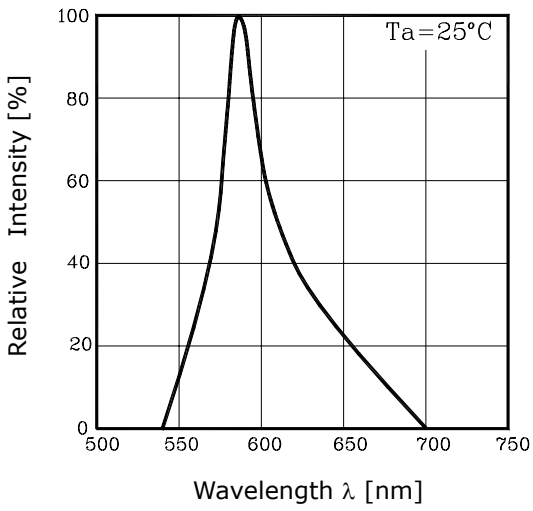
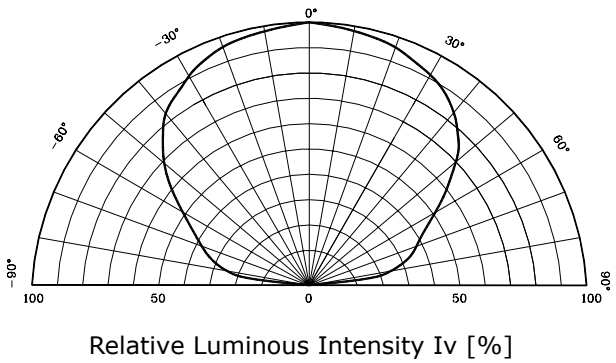


Fig. 5-1 Radiation Diagram



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