AUK Semiconductor

SA4433

Side View LED Lamp

Features

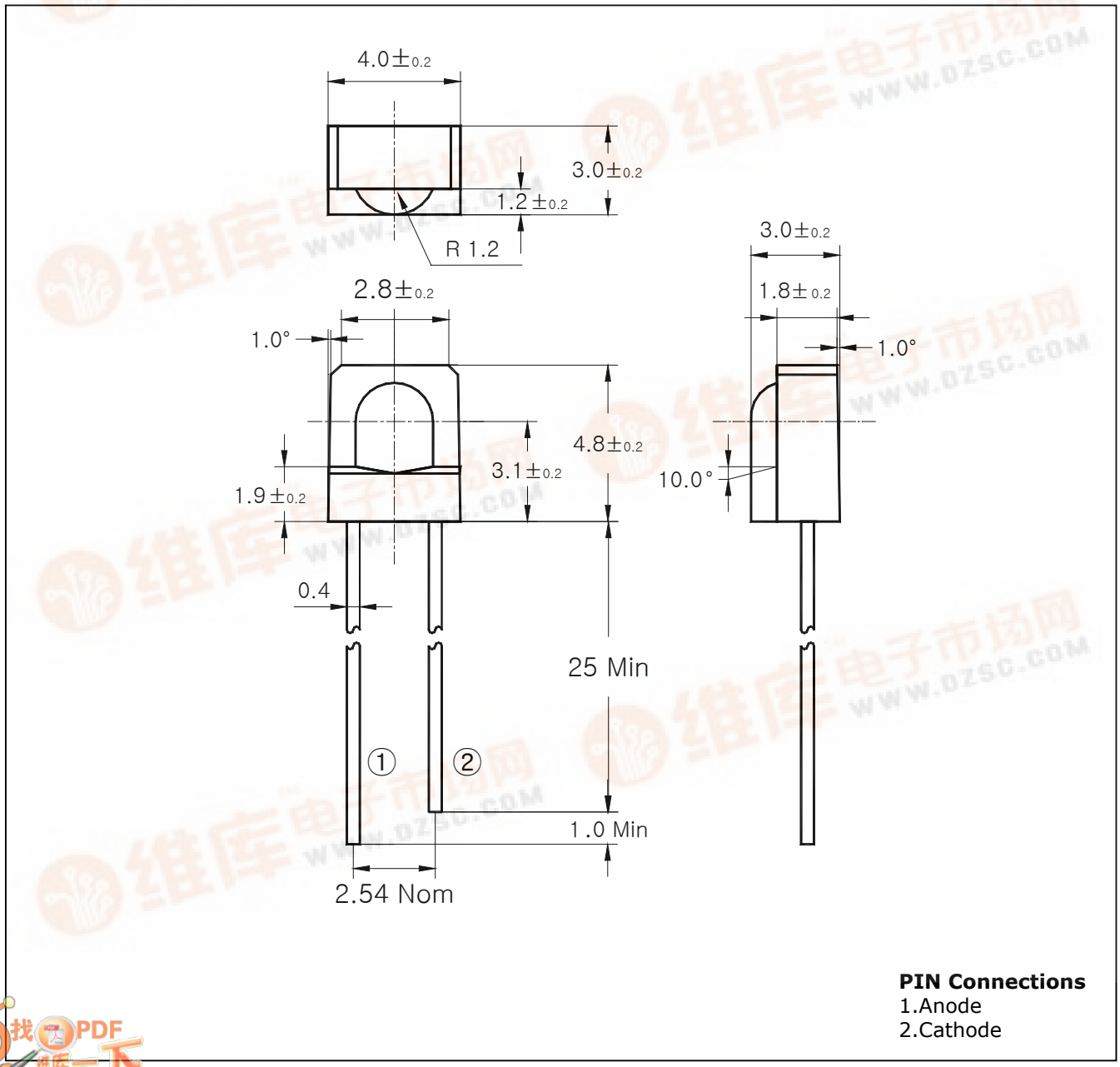
- Red Colored transparency lens type
- Side view package(4.0mm×4.8mm)
- Thin lead frame(Thickness : 0.4mm)

Application

- Backlighting lamp (car audio etc.)
- Indicator lamp(Monitor, CD-Rom, Printer etc.)

Outline Dimensions

unit : mm



PIN Connections
1.Anode
2.Cathode

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	65	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}	260℃ for 5 seconds	

*1.Duty ratio = 1/16, Pulse width = 0.1ms
*2.Keep the distance more than 2.0mm from PCB to the bottom of LED package

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F= 20mA	-	2.1	2.7	V
Luminous Intensity	I_V	I_F= 20mA	14	27	-	mcd
Peak Wavelength	λ_P	I_F= 20mA	-	630	-	nm
Spectrum Bandwidth	$\Delta\lambda$	I_F= 20mA	-	35	-	nm
Reverse Current	I_R	V_R=4V	-	-	10	uA
*[3]Half Angle	$\theta 1/2$	I_F= 20mA	-	±22	-	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

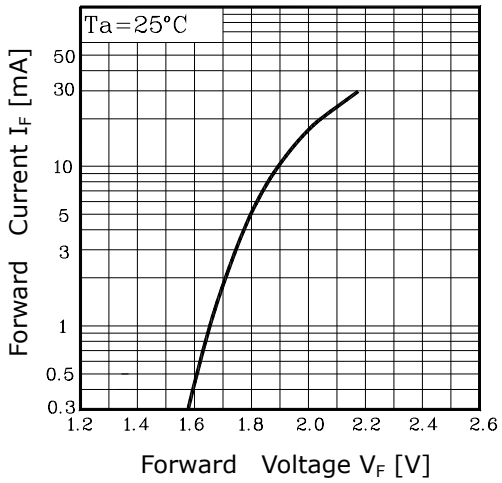


Fig. 2 I_V - I_F

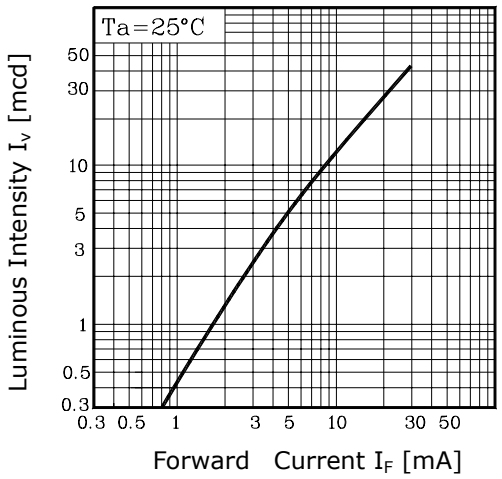


Fig. 3 I_F – Ta

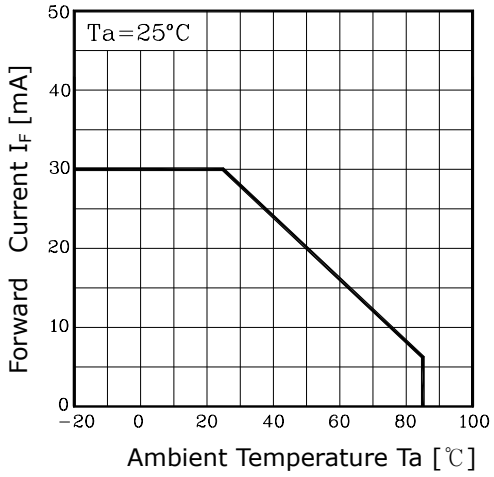


Fig.4 Spectrum Distribution

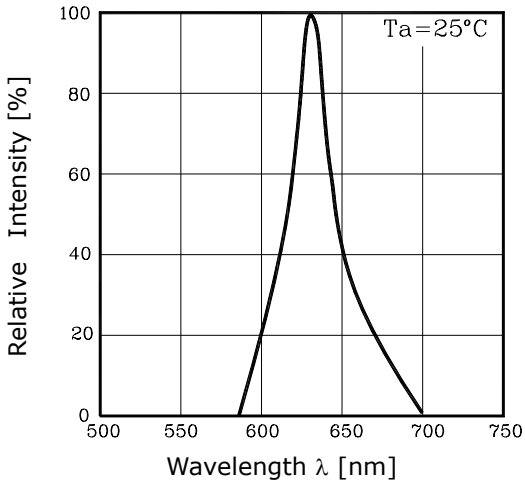


Fig. 5 Radiation Diagram