AUK Semiconductor

SAM2331

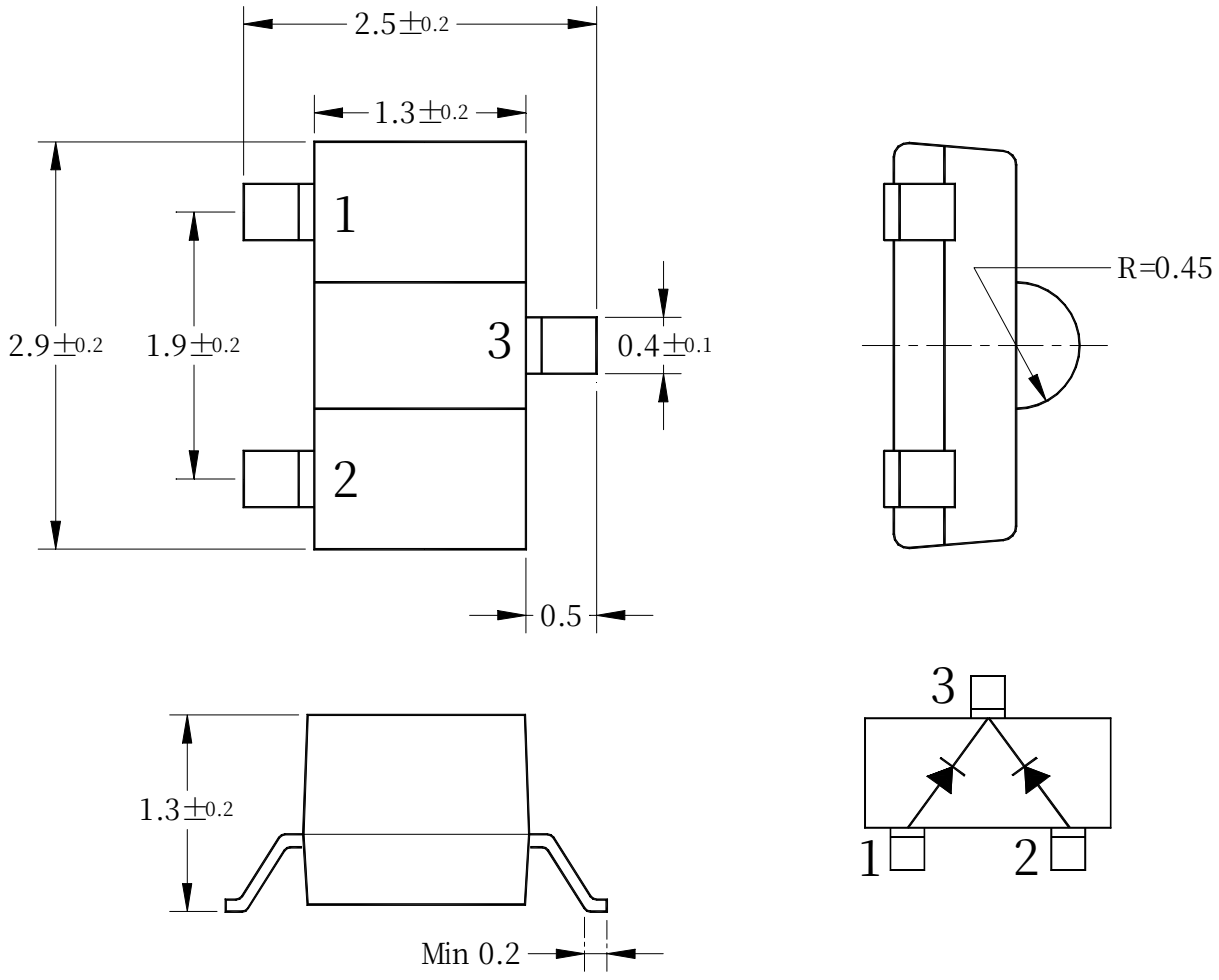
Dual Chip LED Lamp

Features

- Compact type
- Radiation size 1.3mm × 2.9mm
- Radiation color (Red, Green)
- Surface mount lead configuration

Outline Dimensions

unit : mm



PIN Connections
1.Anode (Green)
2.Anode (Red)
3.Cathode

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	55	mW
Forward Current	I_F	30	mA
*[1]Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25 85	℃
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	Red	I_F= 20mA	-	2.0	2.7	V
		Y-Green		-	2.1	2.8	
Luminous Intensity	I_V	Red	I_F= 20mA	-	12	-	mcd
		Y-Green		-	15	-	
Peak Wavelength	λ_P	Red	I_F= 20mA	-	630	-	nm
		Y-Green			570		
Spectrum Bandwidth	Δ_λ	Red	I_F= 20mA	-	35	-	nm
		Y-Green			30		
Reverse Current	I_R		V_R=4V	-	-	10	uA
*[3]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

Characteristic Diagrams

Fig. 1 I_F - V_F

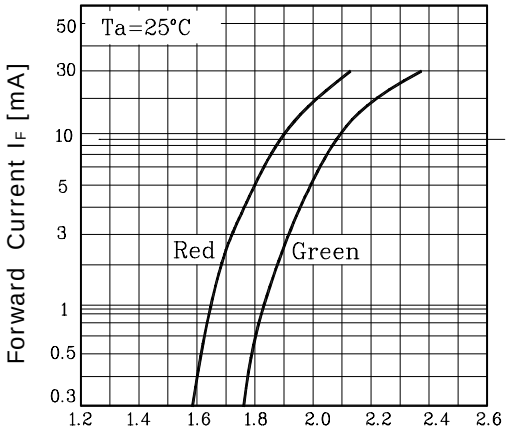


Fig. 2 I_V - I_F

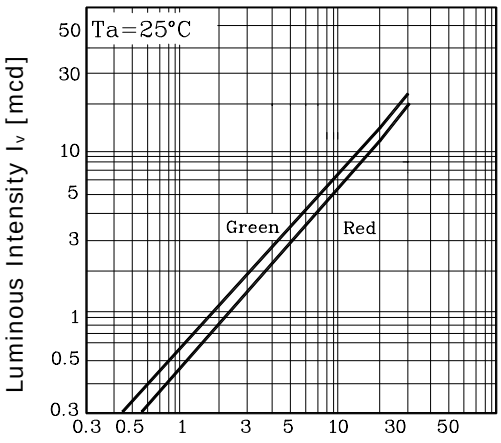


Fig. 3 I_F – Ta

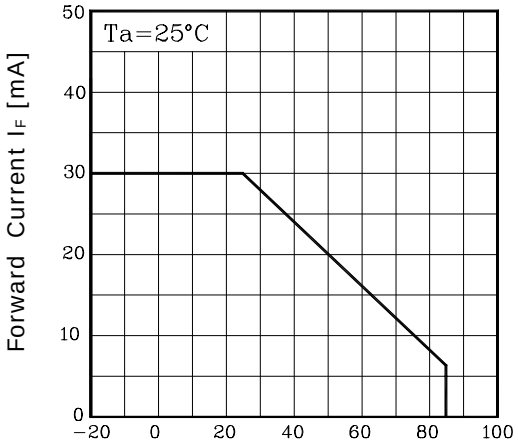


Fig.4 Spectrum Distribution

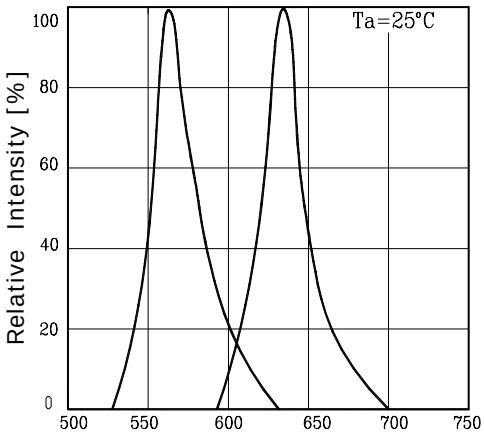


Fig. 5 Radiation Diagram