AUK Semiconductor

SAM3370

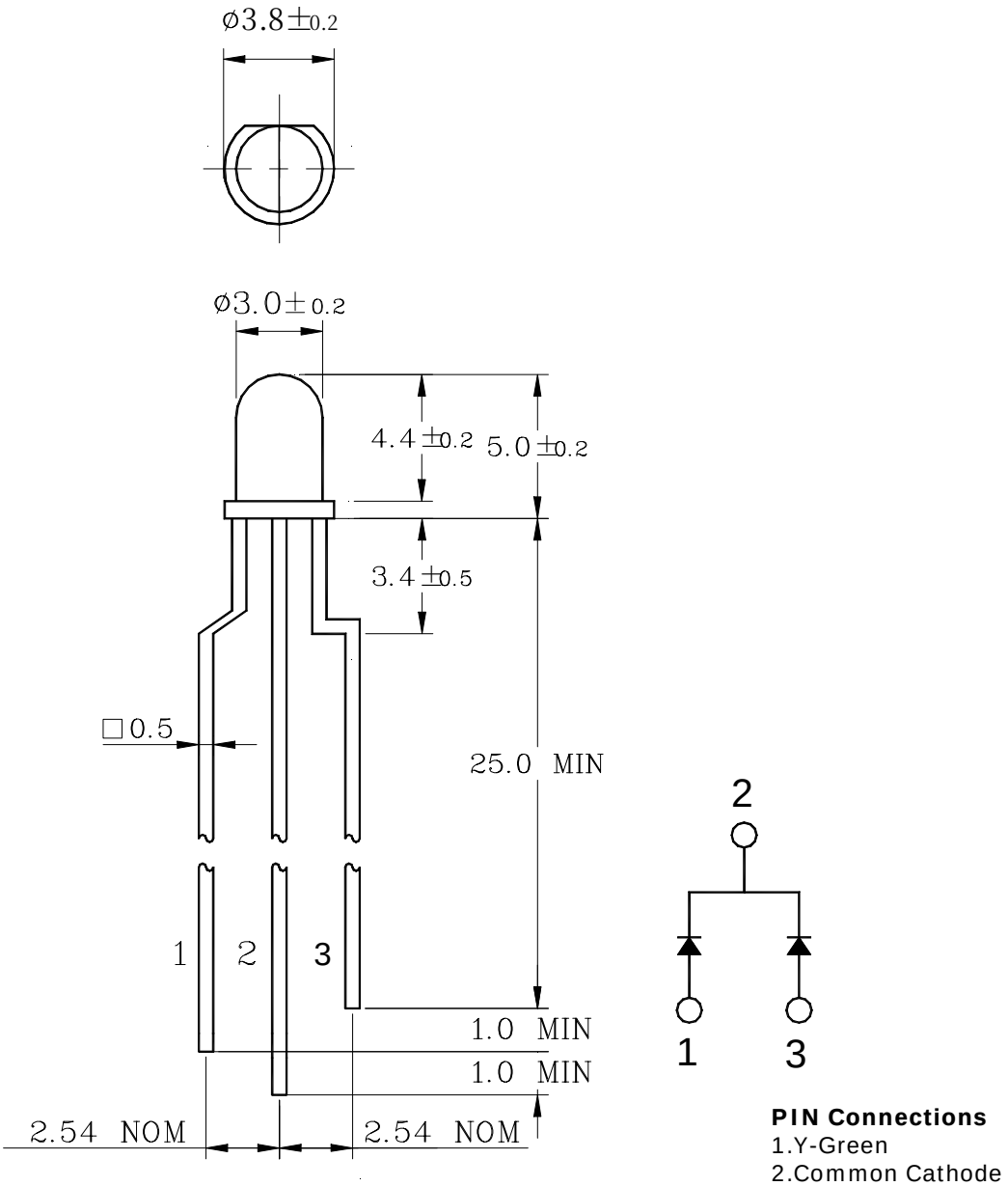
Dual Color LED Lamp

Features

- Colorless transparency lens type
- ϕ3mm(T-1) all plastic mold type
- Radiation color (Red, Green)

Outline Dimensions

unit : mm



PIN Connections
1.Y-Green
2.Common Cathode
3.Red

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	85	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	℃
Soldering Temperature	T_{sol}	260℃ for 5 seconds	

*1.Duty ratio = 1/16, Pulse width = 0.1ms

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		-	2.2	2.8	
Luminous Intensity	I_V	Red	I_F= 20mA	-	22	-	mcd
		Y-Green		-	35	-	
*[2]Peak Wavelength	λ_P	Red	I_F= 20mA	-	630	-	nm
		Y-Green		-	570	-	
Spectrum Bandwidth	$\Delta\lambda$	Red	I_F= 20mA	-	35	-	nm
		Y-Green		-	30	-	
Reverse Current	I_R		V_R=4V	-	-	10	uA
Half angle	θ1/2		I_F= 20mA	-	±20	-	deg

*2. 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

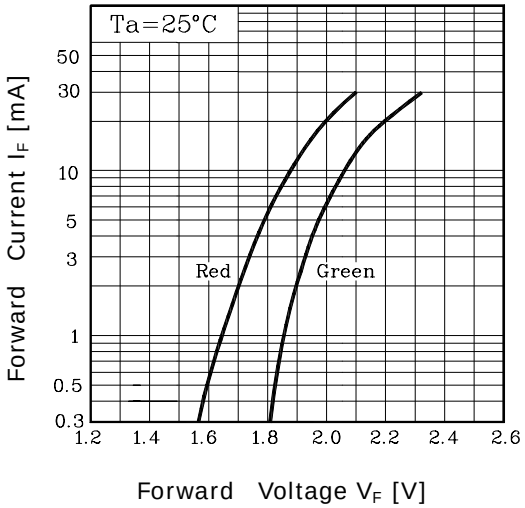


Fig. 2 I_V - I_F

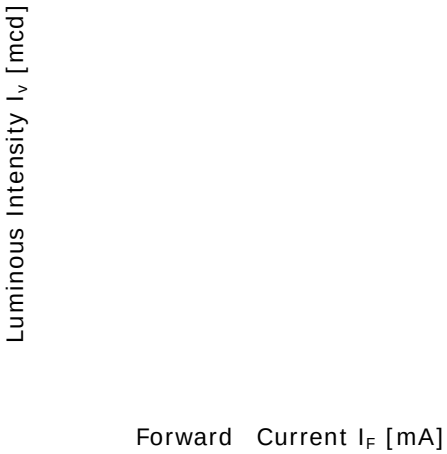


Fig. 3 I_F – Ta

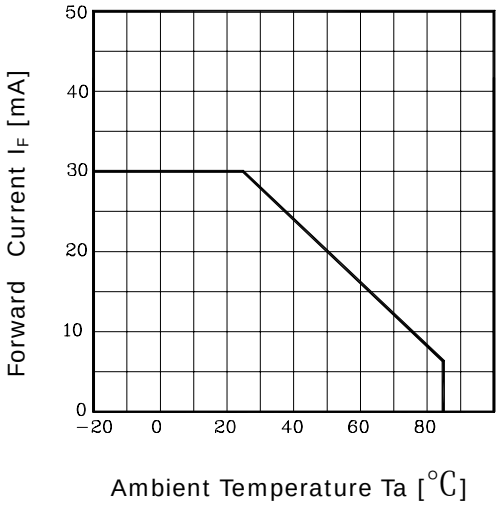


Fig.4 Spectrum Distribution

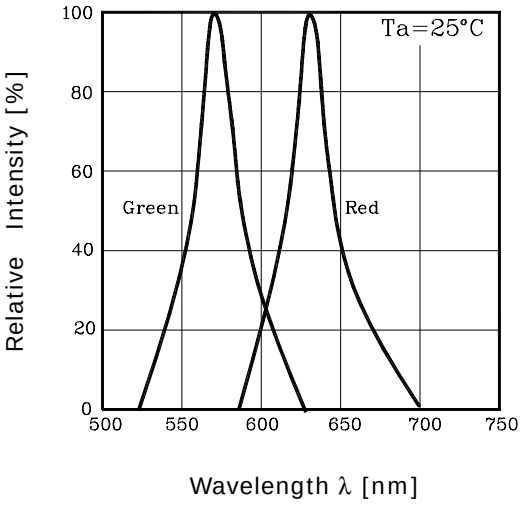


Fig. 5 Radiation Diagram

Relative Luminous Intensity Iv [%]