AUK Semiconductor

SRM5370

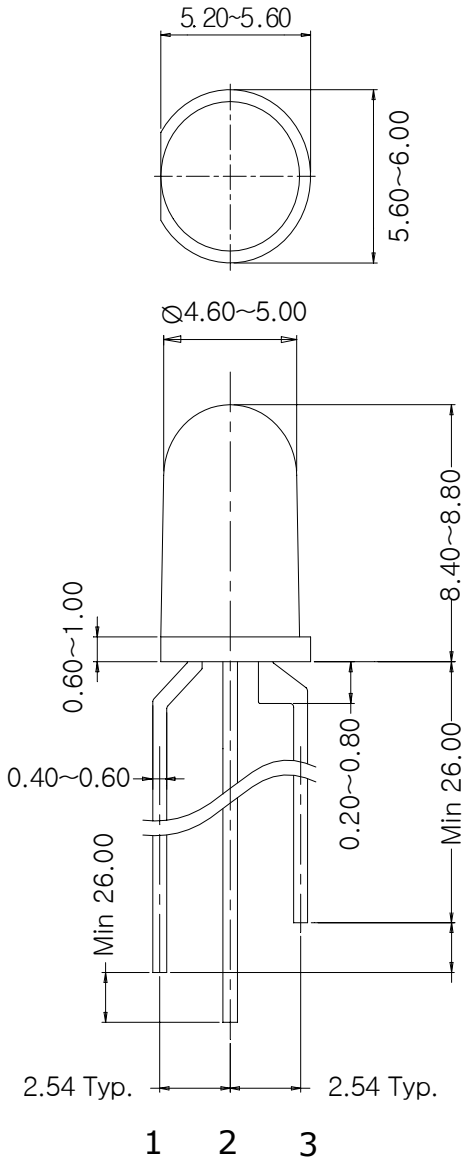
Dual Color LED Lamp

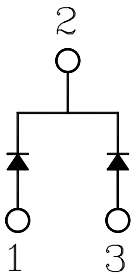
Features

- Colorless transparency lens type
- ϕ5mm(T-1 3/4) all plastic mold type
- Radiation color (Red, Y-Green)
- Low power consumption

Outline Dimensions

unit : mm





PIN Connections

1. Anode (Y-Green)
2. Common Cathode
3. Anode (Red)

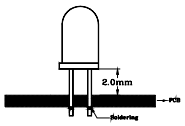
Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating		Unit
		Red	Y-Green	
Power dissipation	P_D	75	75	mW
Forward current	I_F	30	30	mA
*[1]Peak forward current	I_{FP}	50	50	mA
Reverse voltage	V_R	4	4	V
Operating temperature range	T_{opr}	-25～85		℃
Storage temperature range	T_{stg}	-30～100		℃
*[2]Soldering temperature	T_{sol}	260℃ for 10 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 / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol		Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	Red	I_F= 20mA	-	2.0	2.5	V
		Y-Green		-	2.2	2.5	
Luminous intensity	I_V	Red	I_F= 20mA	68	155	-	mcd
		Y-Green		27	68	-	
Peak wavelength	λ_P	Red	I_F= 20mA	-	660	-	nm
		Y-Green			570		
Spectrum bandwidth	$\Delta\lambda$	Red	I_F= 20mA	-	20	-	nm
		Y-Green			30		
Reverse current	I_R		V_R=4V	-	-	10	uA
*[3]Half angle	θ1/2		I_F= 20mA	-	±20	-	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

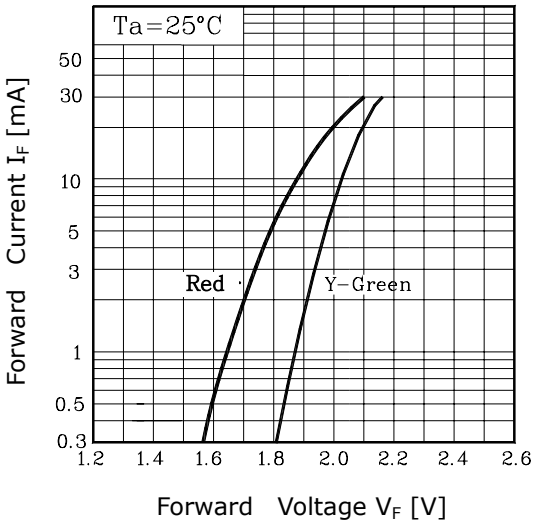


Fig. 2 I_V - I_F

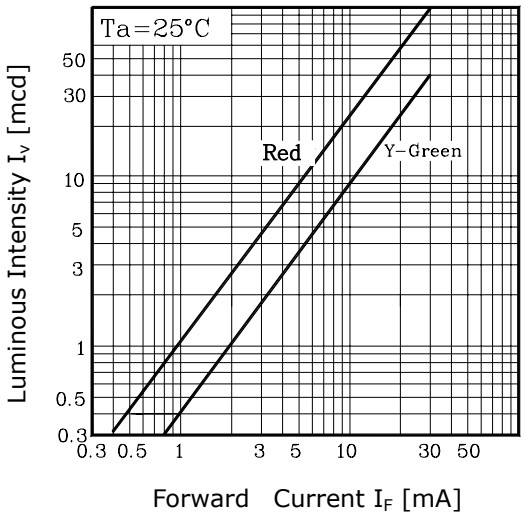


Fig. 3 I_F – Ta

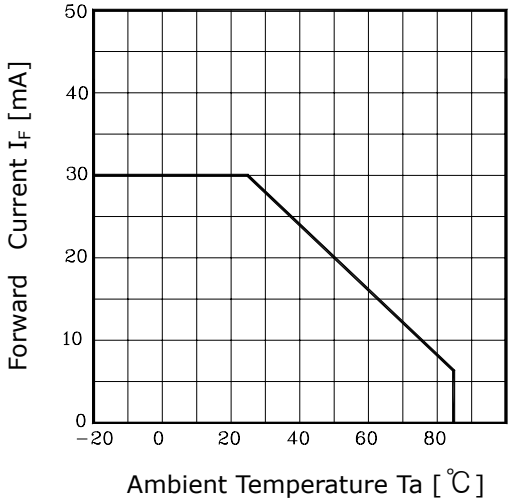


Fig.4 Spectrum Distribution

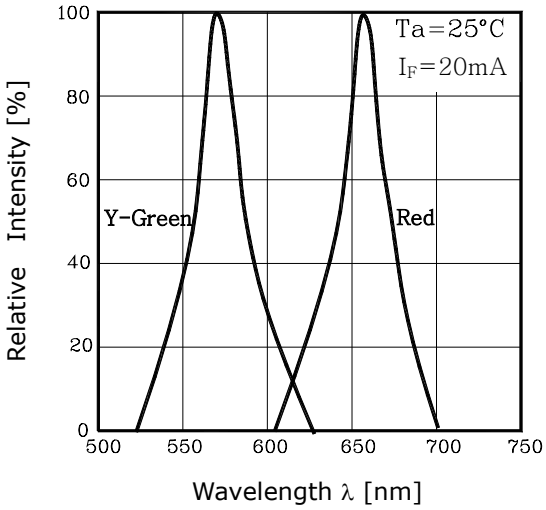
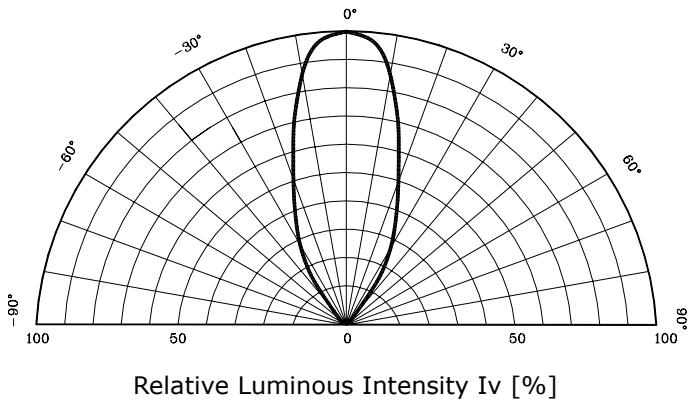


Fig. 5 Radiation Diagram



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