SHE123AF / SHE123AF(B)

High Efficiency LED Lamp

Features

- Colorless transparency lens type
- ϕ5mm(T-13/4) all plastic mold type
- Super luminosity

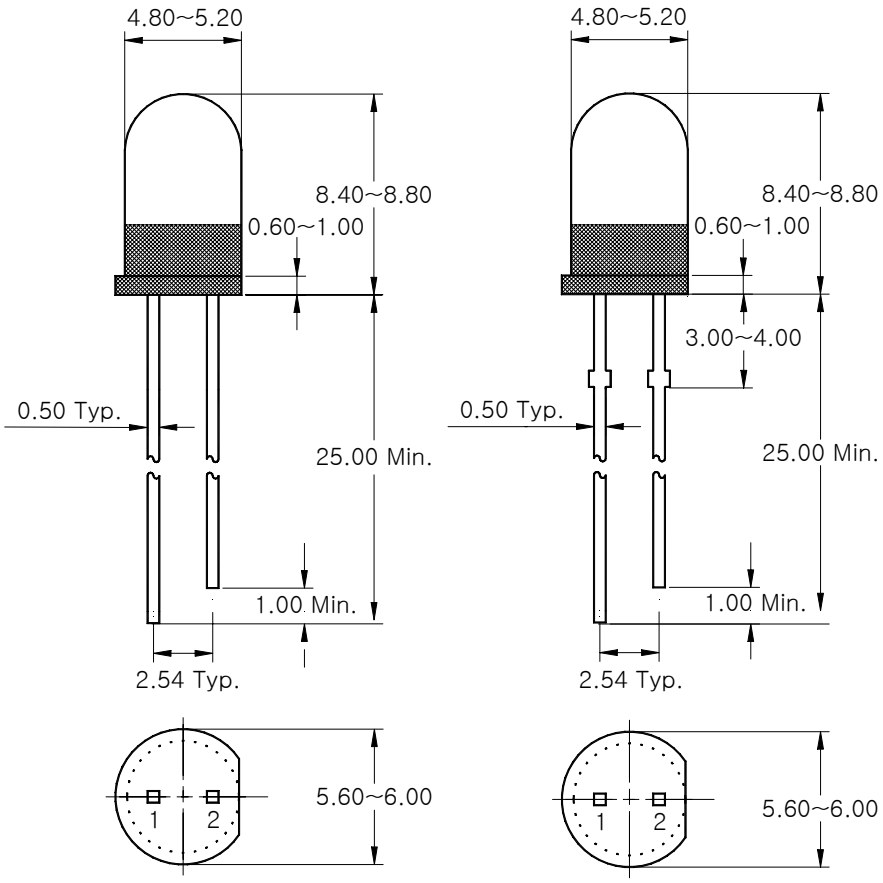
Application

- Traffic Signal
- Message Board

Outline Dimensions

unit : mm

STRAIGHT TYPE STOPPER TYPE : (B)



PIN Connections
1. Anode
2. Cathode

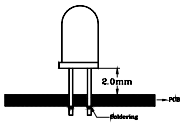
Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	105	mW
Forward current	I_F	40	mA
*[1]Peak forward current	I_{FP}	65	mA
Reverse voltage	V_R	4	V
Operating temperature range	T_{opr}	-20～85	℃
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	I_F= 20mA	-	2.1	2.6	V
*[4]Luminous intensity	I_V	I_F= 20mA	2640	-	8910	mcd
Dominant wavelength	λ_D	I_F= 20mA	615	620	625	nm
Spectrum bandwidth	$\Delta\lambda$	I_F= 20mA	-	30	-	nm
Reverse current	I_R	V_R=4V	-	-	10	uA
*[3]Half angle	$\theta 1/2$	I_F= 20mA	-	±15	-	deg

*3. $\theta 1/2$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

*4. Luminous intensity maximum tolerance for each grade classification limit is ±18%

*4. Luminous Intensity Classification

T1	T_2	U_1	U_2	V_1	V_2
2640~3400	3400~3960	3960~4900	4900~5940	5940~7400	7400~8910

Characteristic Diagrams

Fig. 1 I_F - V_F

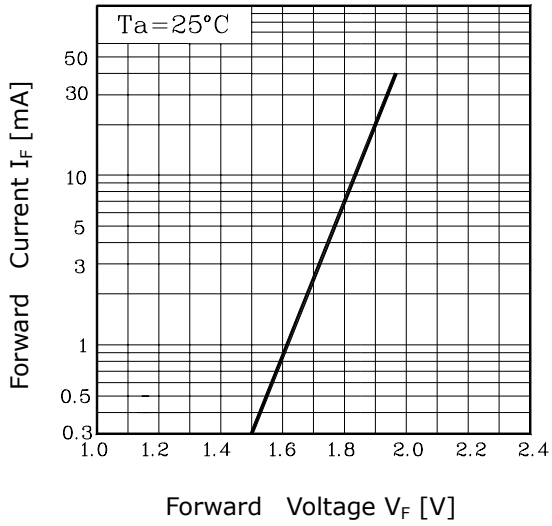


Fig. 2 I_V- I_F

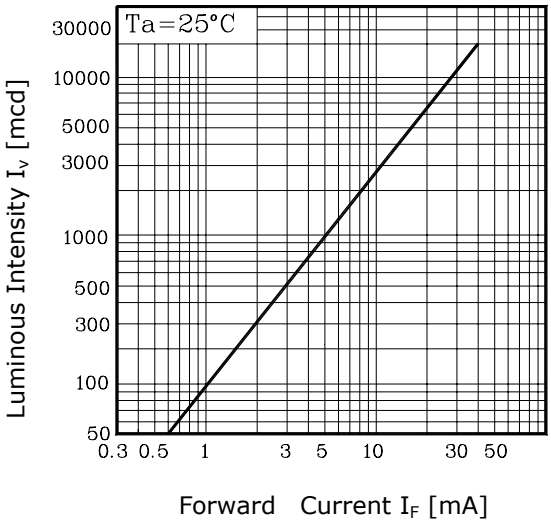


Fig. 3 I_F – Ta

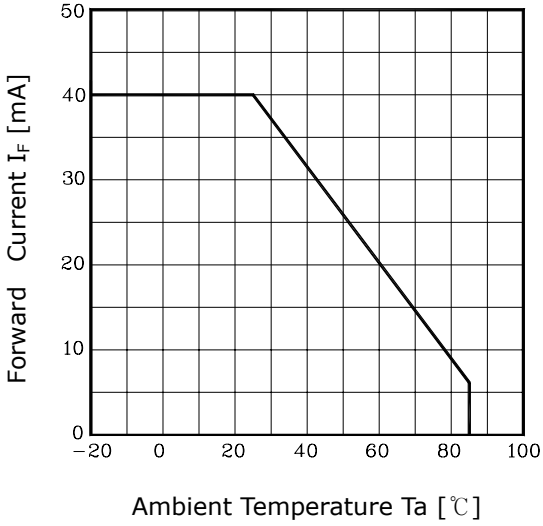


Fig.4 Spectrum Distribution

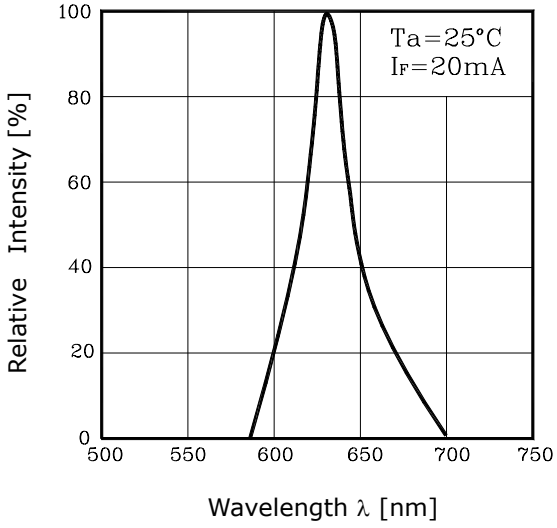
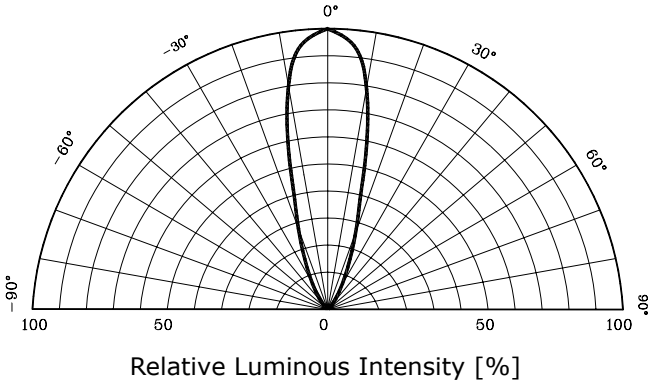


Fig. 5 Radiation Diagram



The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.