

Features

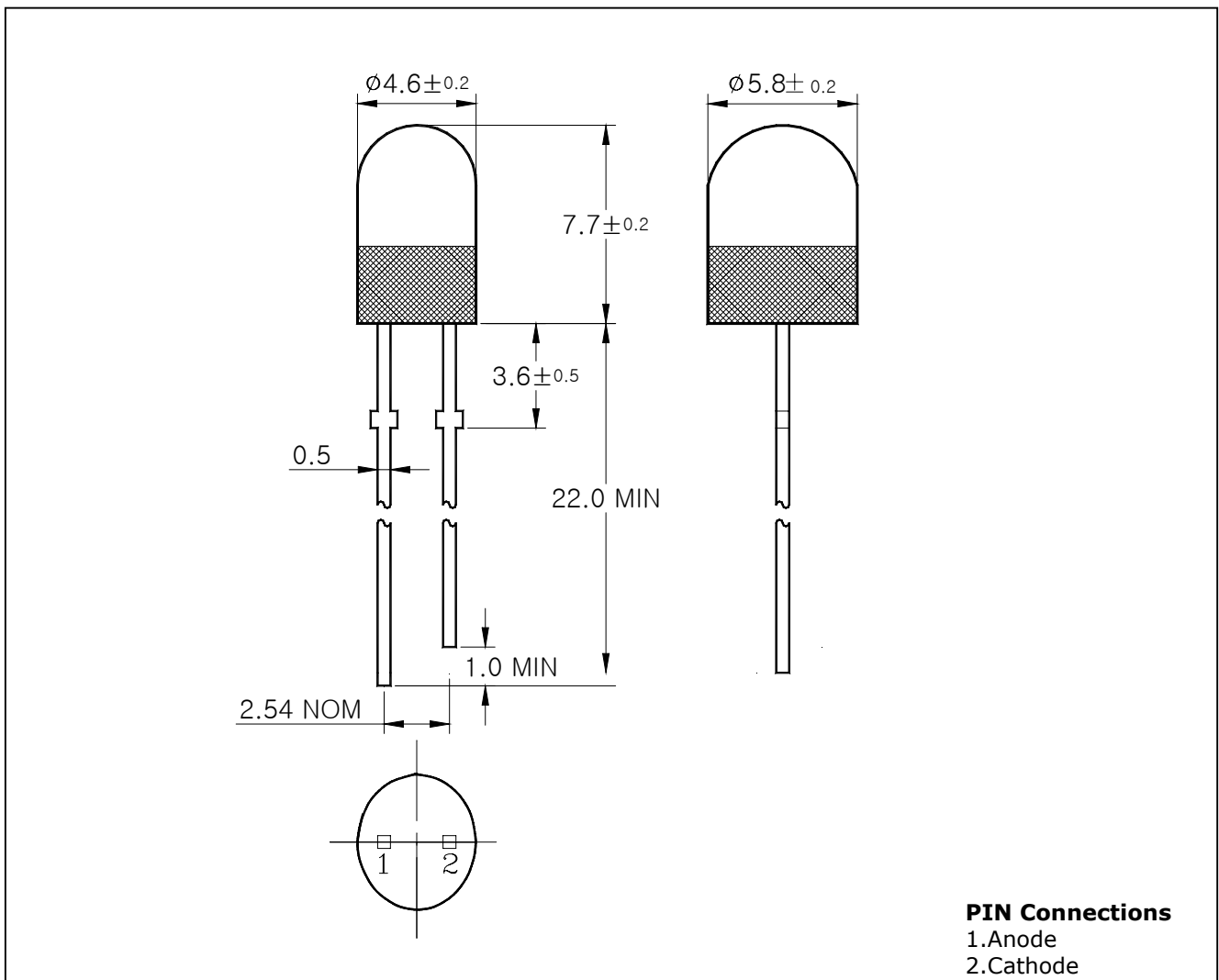
- Green colored transparency lens type
- Ellipse type(X=4.6mm, Y=5.8mm)
- Ultra luminosity
- Flangeless package
- High power LEDs
- Oval shape
- View Angle : 70° / 34°

Application

- Full color displays
- Message boards
- Variable message signs(VMS)

Outline Dimensions

unit : mm



Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	155	mW
Forward Current	I_F	40	mA
* ¹ Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-30 ~ 85	°C
Storage Temperature	T_{stg}	-30 ~ 100	°C
* ² Soldering Temperature	T_{sol}	260°C for 3 seconds	

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

※ Recommend document

- . LED is very sensitive to ESD.

*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	$I_F = 20\text{mA}$	2.7	3.3	3.8	V
* ⁴ Luminous Intensity	I_V	$I_F = 20\text{mA}$	1760	3960	5940	mcd
Peak Wavelength	λ_P	$I_F = 20\text{mA}$	-	525	-	nm
Spectrum Bandwidth	$\Delta \lambda$	$I_F = 20\text{mA}$	-	35	-	nm
Reverse Current	I_R	$V_R = 4\text{V}$	-	-	10	uA
* ³ Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	± 17	-	deg
			-	± 35	-	

*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 $\pm 18\%$

*4. Luminous Intensity classification

S	T	U
1760~2640	2640-3960	3960-5940

Characteristic Diagrams

Fig. 1 $I_F - V_F$

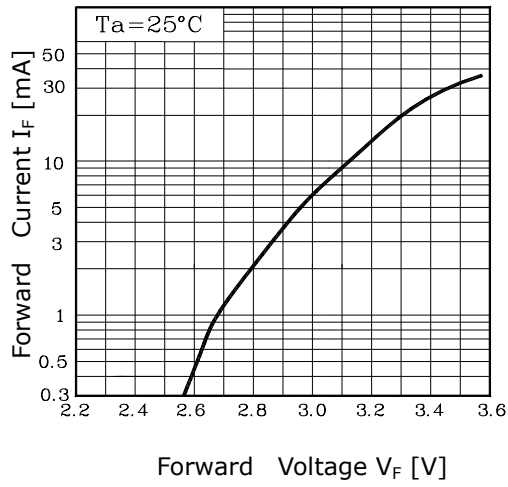


Fig. 2 $I_V - I_F$

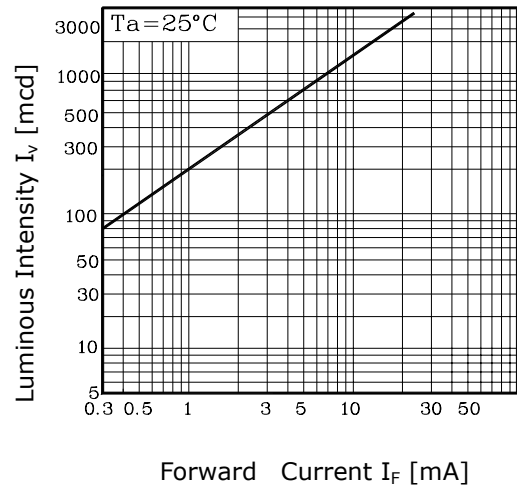


Fig. 3 $I_F - T_a$

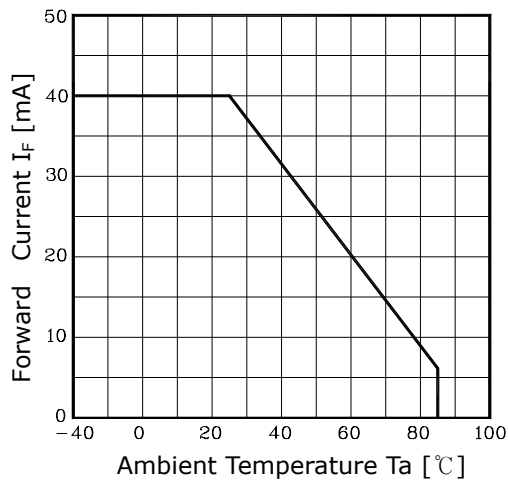


Fig. 4 Spectrum Distribution

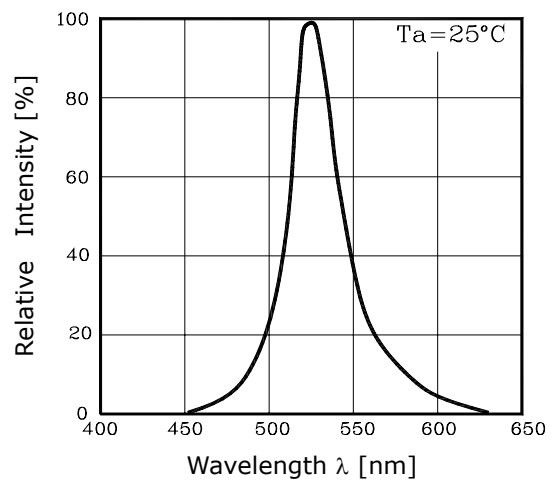


Fig. 5-1 Radiation Diagram(X)

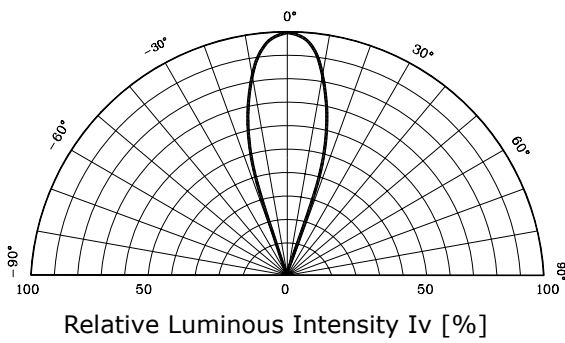
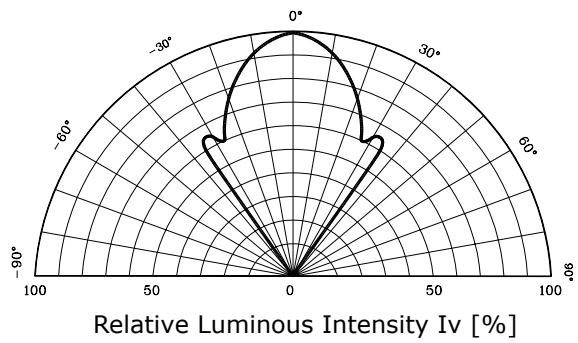


Fig. 5-2 Radiation Diagram(Y)



These AUK products are intended for usage in general electronic equipments(Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK 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, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.