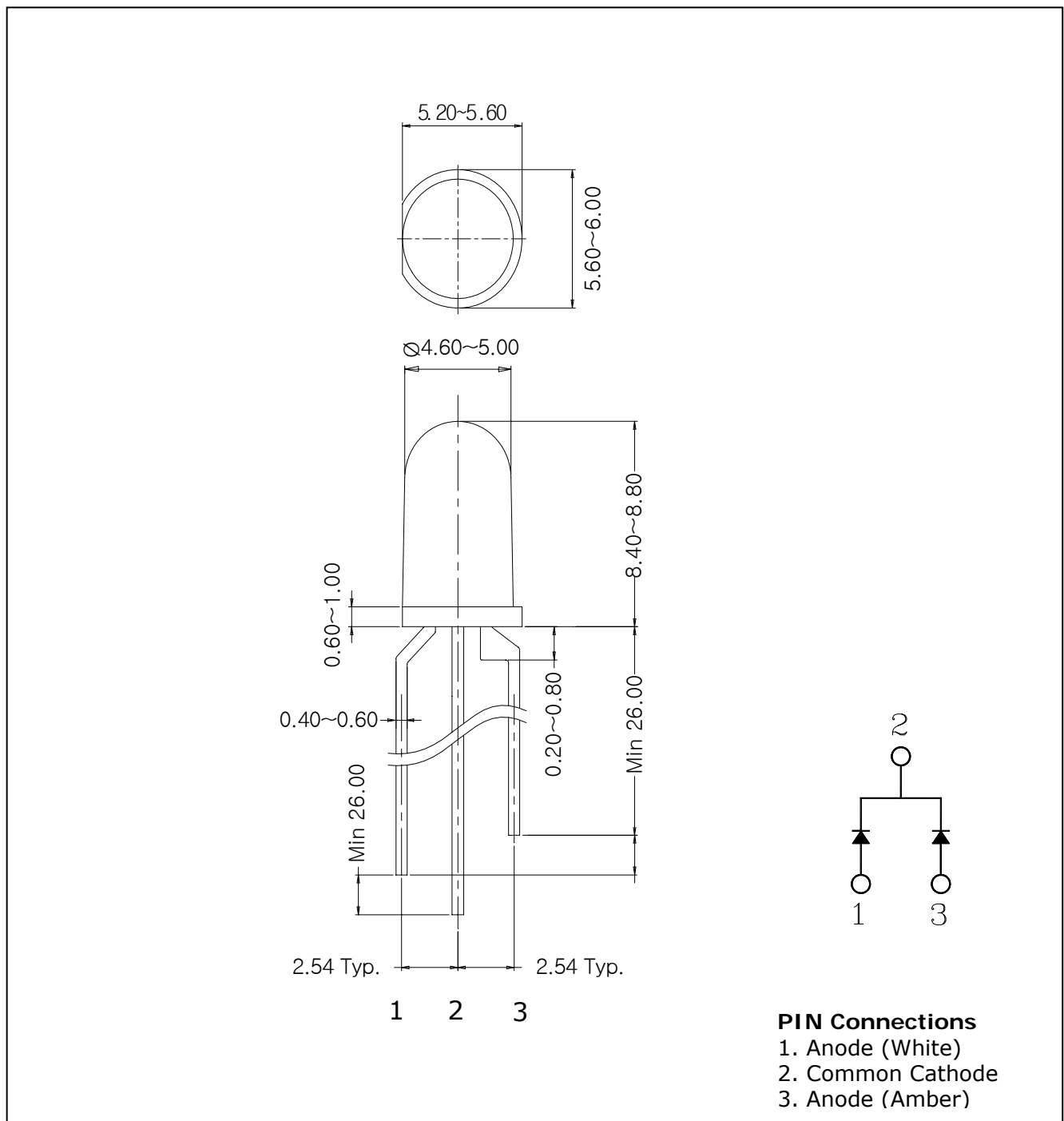


Features

- Milky diffusion lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Radiation color (Amber, White)
- Low power consumption

Outline Dimensions

unit : mm



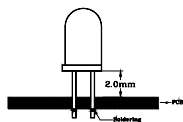
Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating		Unit
		White	Amber	
Power dissipation	P_D	125	75	mW
Forward current	I_F	30	30	mA
*1Peak forward current	I_{FP}	50	50	mA
Reverse voltage	V_R	10	16	V
Operating temperature range	T_{opr}	-25 ~ 85		°C
Storage temperature range	T_{stg}	-30 ~ 100		°C
*2Soldering temperature	T_{sol}	260°C 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	$I_F = 20\text{mA}$	White	-	3.5	4.2	V
			Amber	-	2.0	2.5	
Luminous intensity	I_V	$I_F = 20\text{mA}$	White	-	200	-	mcd
			Amber	-	100	-	
*4Chromaticity coordinates	X	$I_F = 20\text{mA}$	White	0.25	-	0.33	-
	Y			0.24	-	0.38	-
Peak wavelength	λ_P	$I_F = 20\text{mA}$	-	630	-	nm	
Reverse current	I_R	White	$V_R = 10\text{V}$	-	-	10	uA
		Amber	$V_R = 16\text{V}$	-	-	10	
*3Half angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	± 20	-	deg	

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

Characteristic Diagrams

Fig. 1 $I_F - V_F$

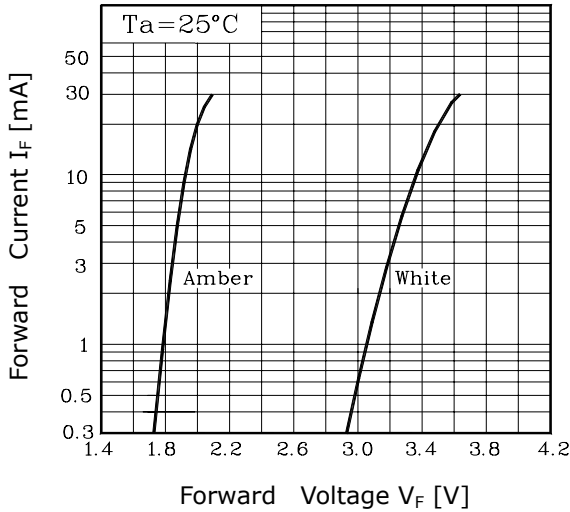


Fig. 2 $I_V - I_F$

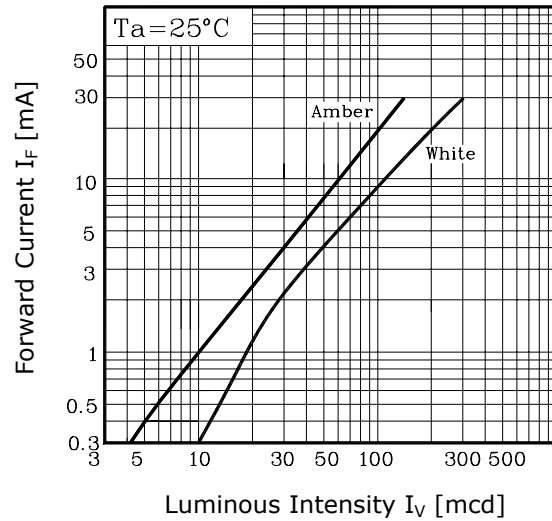


Fig. 3 $I_F - T_a$

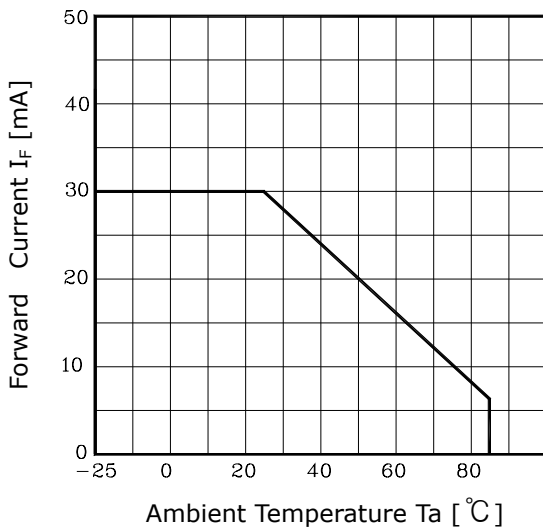


Fig. 4 Spectrum Distribution

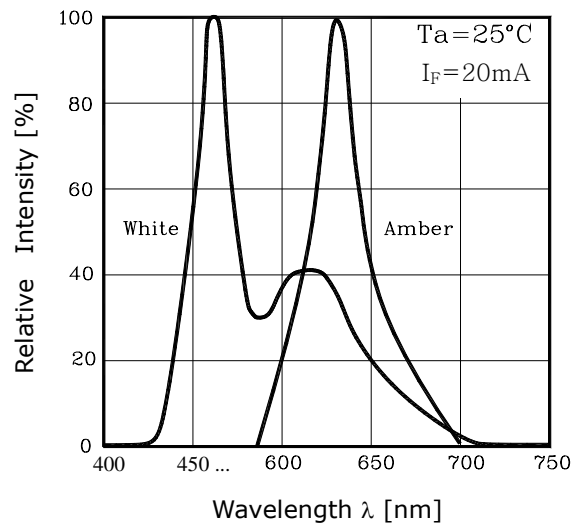
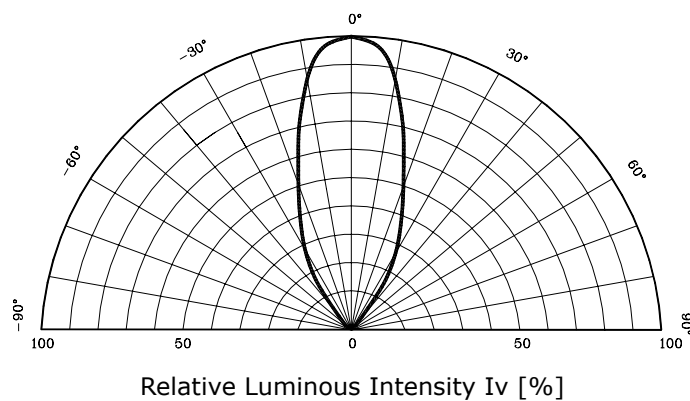
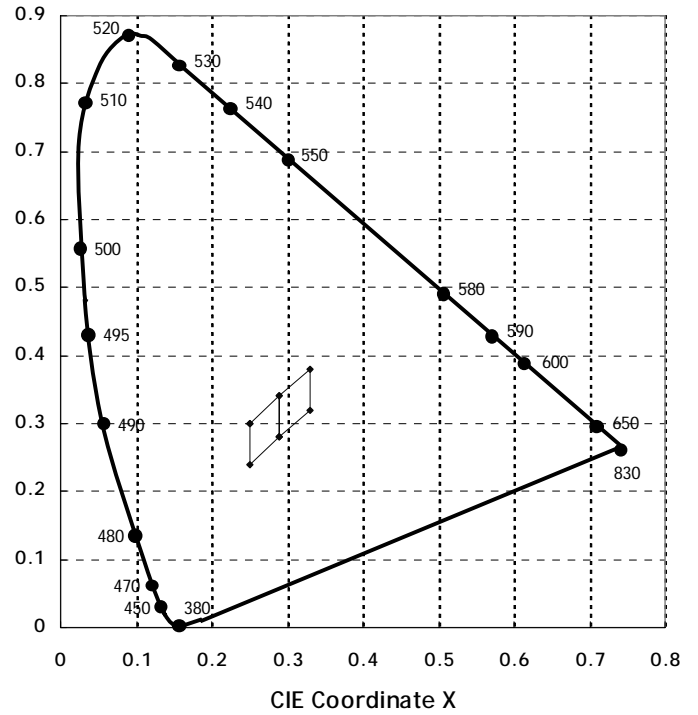
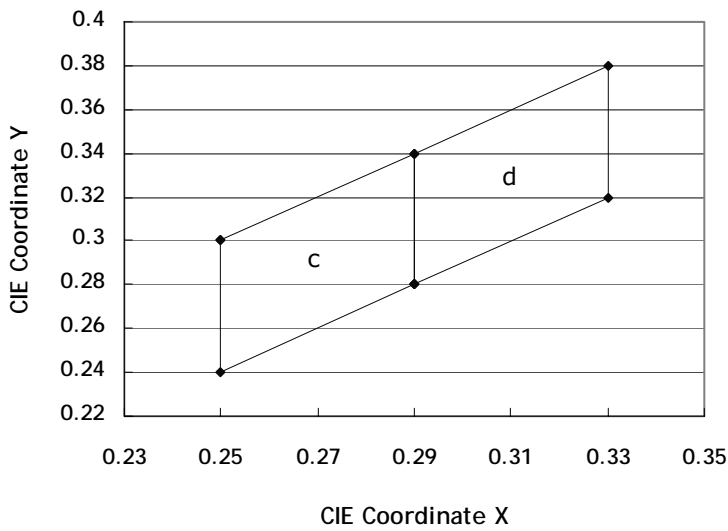


Fig. 5 Radiation Diagram



◆ CIE 1931 UCS Diagram



- CIE Coordinates Grade Classification ($I_F=20\text{mA}$, $T_a=25^\circ\text{C}$)

Color Bin	CIE Coodinates		Color Bin	CIE Coodinates	
	X	Y		X	Y
c	0.25	0.30	d	0.29	0.28
	0.25	0.24		0.29	0.34
	0.29	0.28		0.33	0.38
	0.29	0.34		0.33	0.32

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.