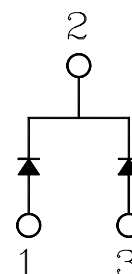
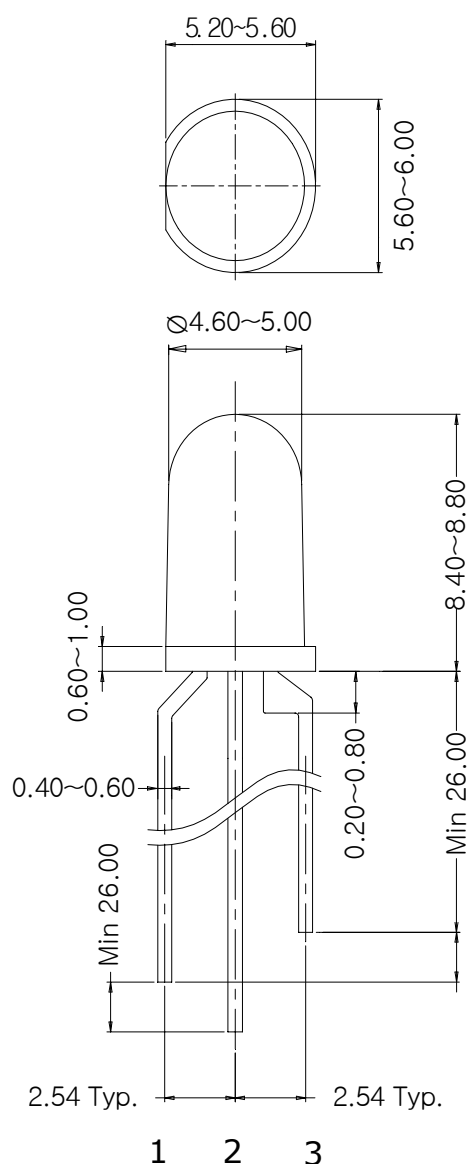


Features

- 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



PIN Connections

1. Anode (White)
2. Common Cathode
3. Anode (Amber)

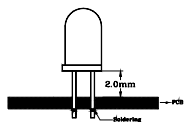
Absolute Maximum Ratings

(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	White	$I_F = 20\text{mA}$	-	3.5	4.2	V
		Amber		-	2.0	2.5	
Luminous intensity	I_V	White	$I_F = 20\text{mA}$	-	200	-	mcd
		Amber		-	100	-	
*4Chromaticity coordinates	X	White	$I_F = 20\text{mA}$	0.25	-	0.33	-
	Y			0.24	-	0.38	-
Peak wavelength	λ_P	Amber	$I_F = 20\text{mA}$	-	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 $I_F - V_F$

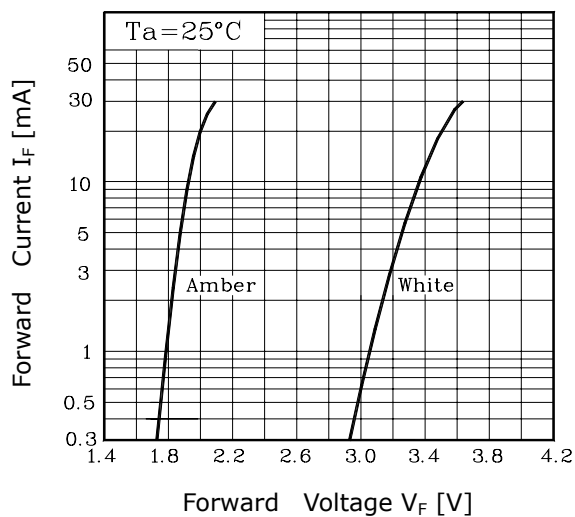


Fig. 2 $I_V - I_F$

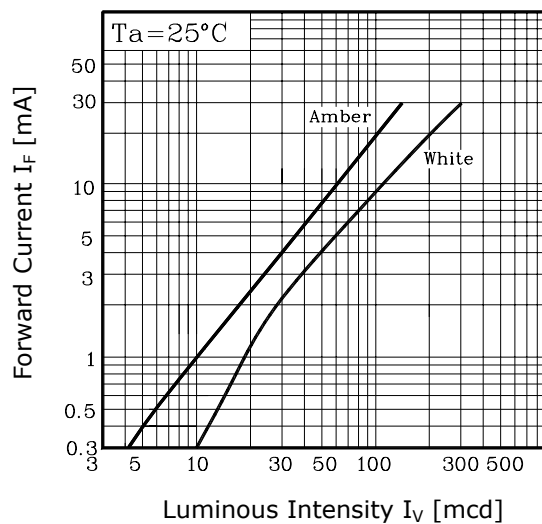


Fig. 3 $I_F - T_a$

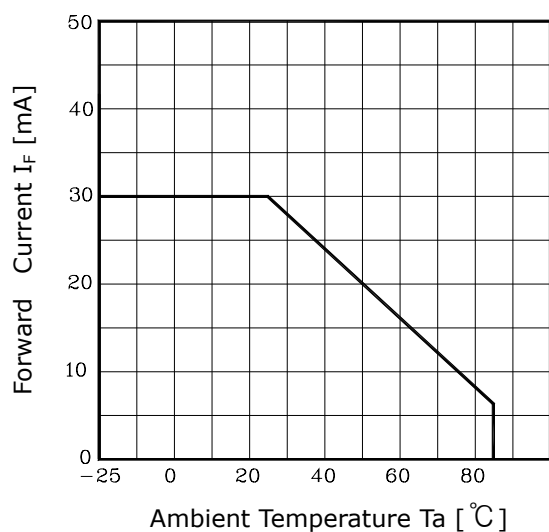


Fig. 4 Spectrum Distribution

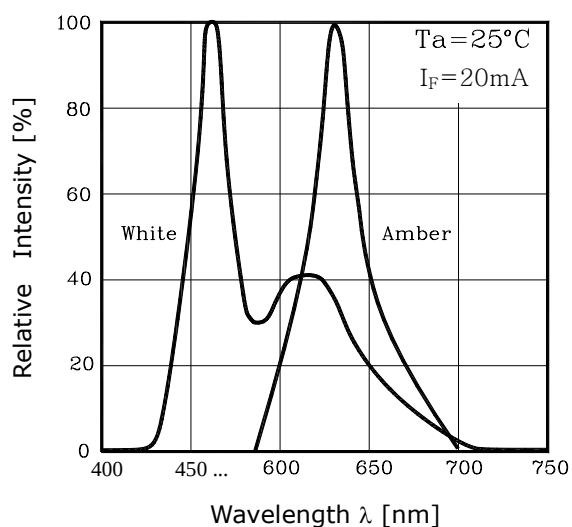
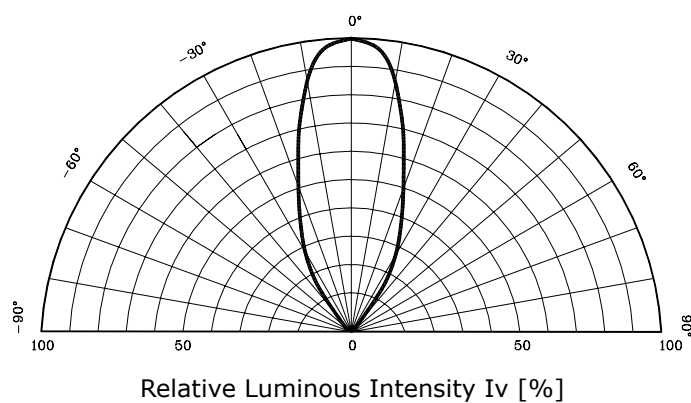
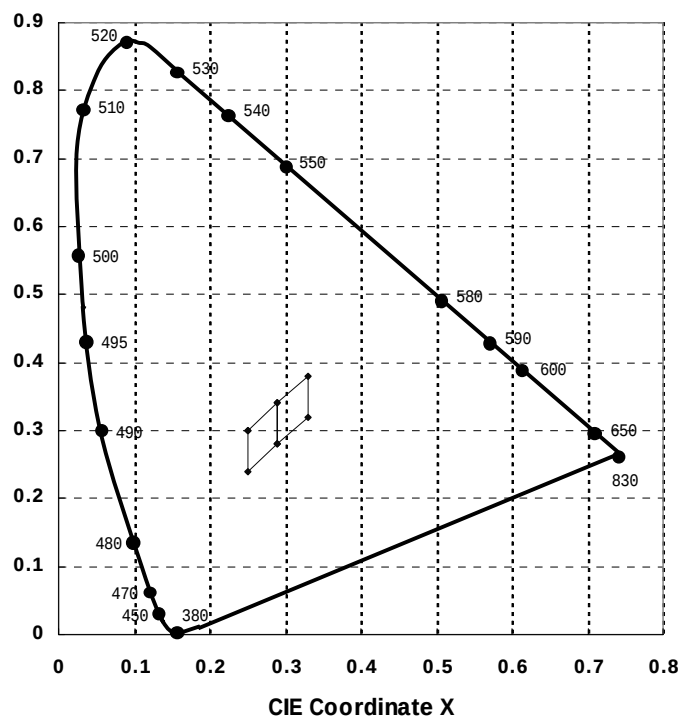
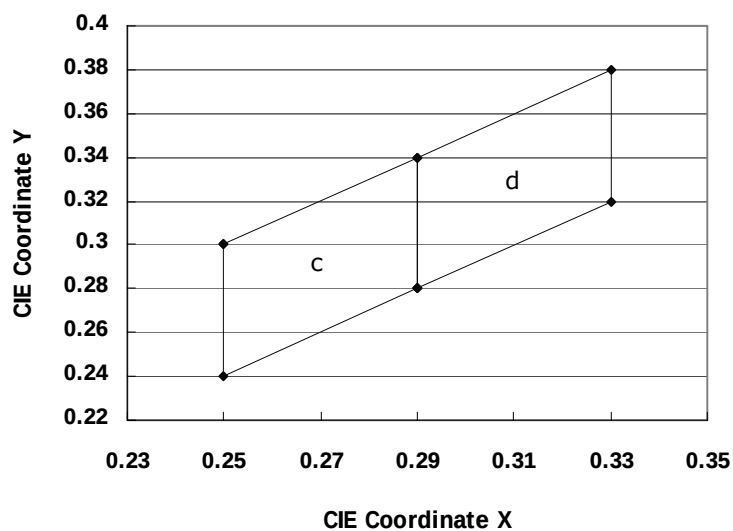


Fig. 5 Radiation Diagram



◆ CIE 1931 UCS Diagram



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

Color Bin	CIE Coordinates		Color Bin	CIE Coordinates	
	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

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