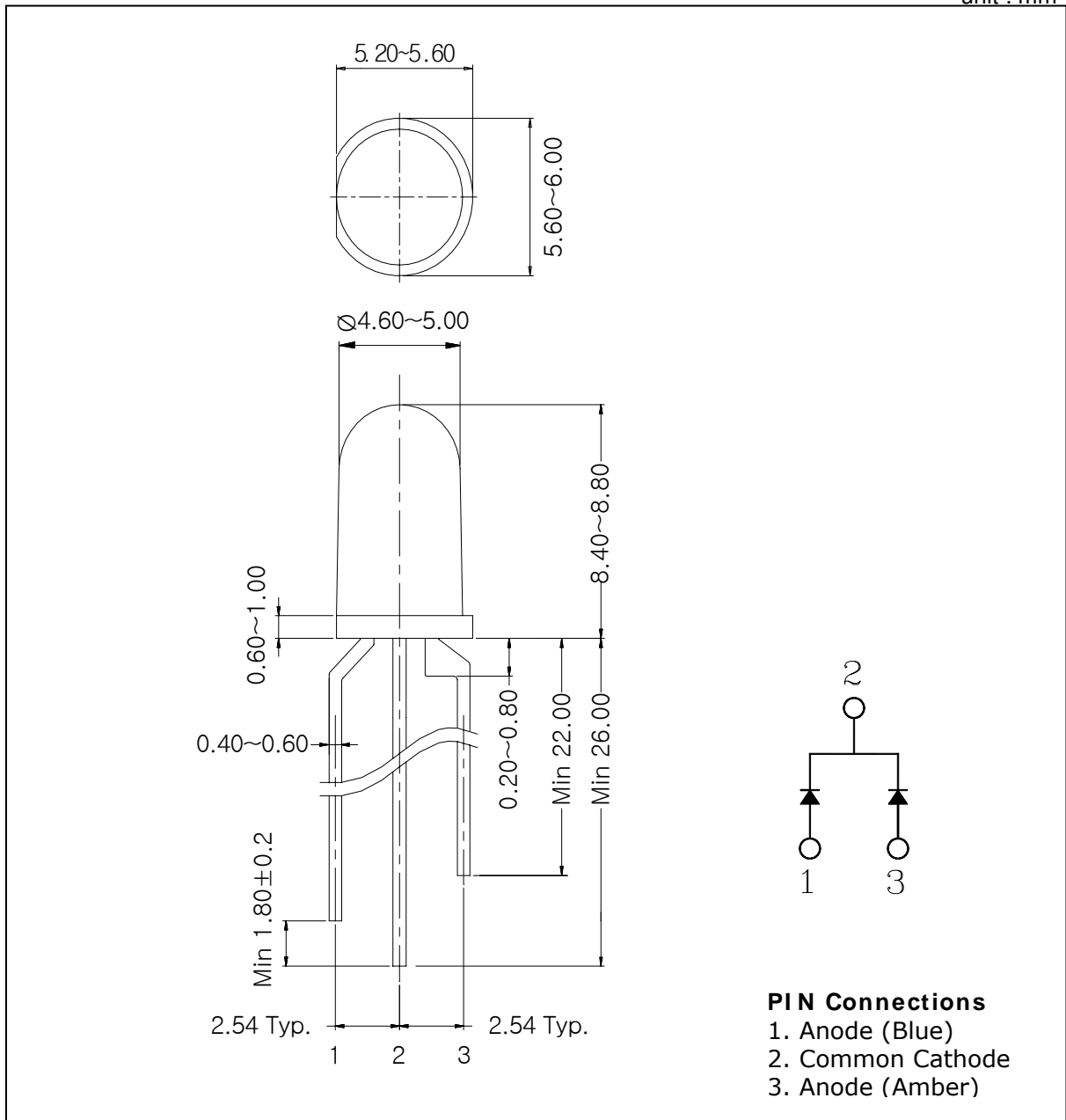


## 1. Features

- ◆ Colorless transparency lens type
- ◆  $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- ◆ Radiation color (Amber, Blue)
- ◆ Low power consumption

## 2. Outline Dimensions

unit : mm



### PIN Connections

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

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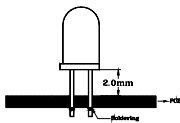
## 3. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating		Unit
		Blue	Amber	
Power dissipation	$P_D$	85	75	mW
Forward current	$I_F$	30	30	mA
*1Peak forward current	$I_{FP}$	50	50	mA
Reverse voltage	$V_R$	4	4	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



## 4. Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol		Test Condition	Min	Typ	Max	Unit
Forward voltage	$V_F$	Blue	$I_F= 20mA$	-	3.5	4.2	V
		Amber		-	2.0	2.5	
*3Luminous intensity	$I_V$	Blue	$I_F= 20mA$	-	230	-	mcd
		Amber		-	230	-	
Peak wavelength	$\lambda_P$	Blue	$I_F= 20mA$	-	470	-	nm
		Amber		-	630	-	
Spectrum bandwidth	$\Delta\lambda$	Blue	$I_F= 20mA$	-	30	-	nm
		Amber		-	35	-	
Reverse current	$I_R$		$V_R=4V$	-	-	10	uA
Half angle	$\theta_{1/2}$		$I_F= 20mA$	-	$\pm 20$	-	deg

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

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5. Characteristic Diagrams

Fig. 1  $I_F - V_F$

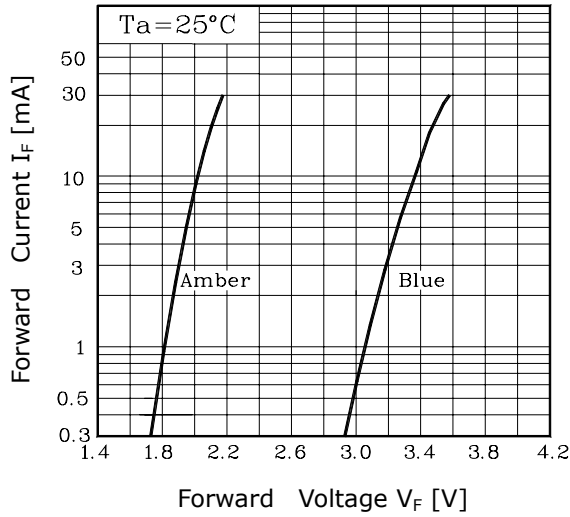


Fig. 2  $I_V - I_F$

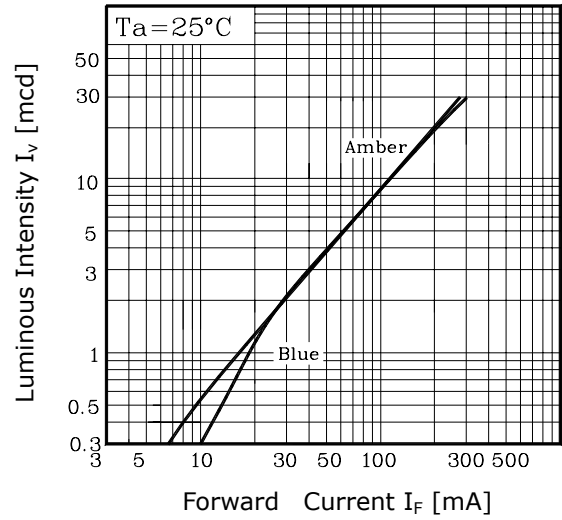


Fig. 3  $I_F - T_a$

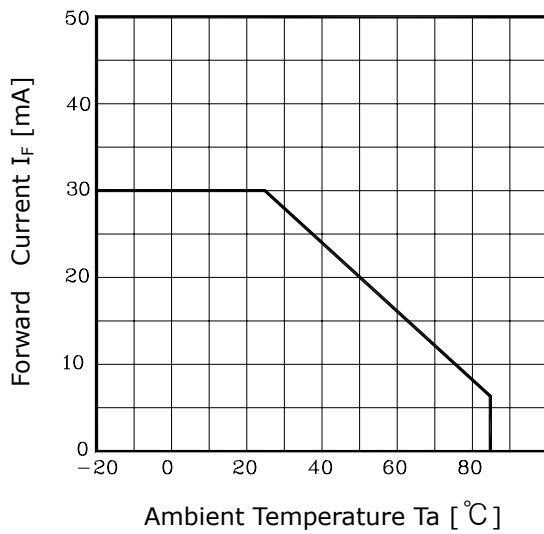


Fig. 4 Spectrum Distribution

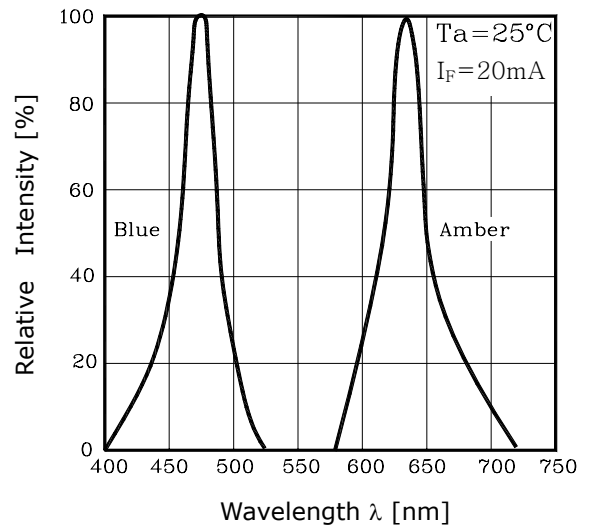
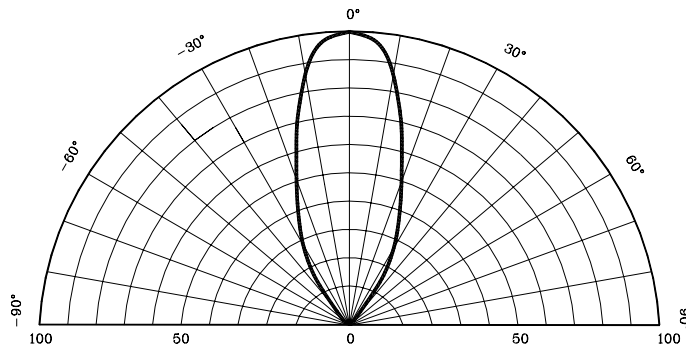


Fig. 5 Radiation Diagram



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