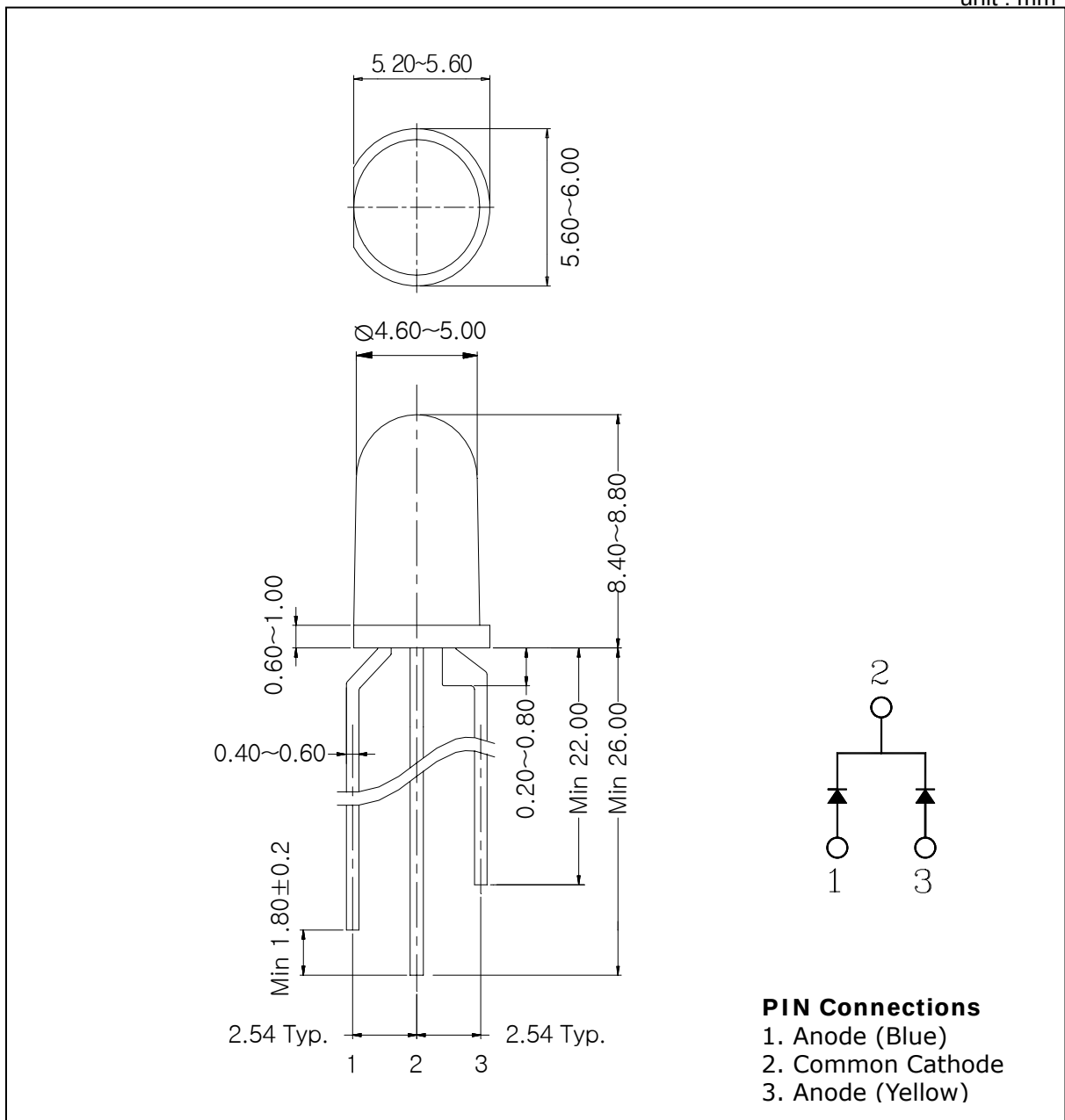


1. Features

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

2. Outline Dimensions

unit : mm



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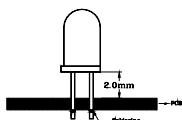
3. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating		Unit
		Blue	Yellow	
Power dissipation	P_D	114	72	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}	-30~85		°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
*3Forward voltage	V_F	Blue	$I_F = 20\text{mA}$	-	3.5	3.8	V
		Yellow		-	2.0	2.4	
*4Luminous intensity	I_V	Blue	$I_F = 20\text{mA}$	-	140	-	mcd
		Yellow		-	230	-	
*5Dominant wavelength	λ_D	Blue	$I_F = 20\text{mA}$	-	468	-	nm
		Yellow		-	590	-	
Spectrum bandwidth	$\Delta\lambda$	Blue	$I_F = 20\text{mA}$	-	27	-	nm
		Yellow		-	16	-	
Reverse current	I_R		$V_R = 4\text{V}$	-	-	10	uA
*6Half angle	$\theta_{1/2}$	Blue	$I_F = 20\text{mA}$	-	± 35	-	deg
		Yellow		-	± 30	-	

*3. Forward voltage maximum tolerance for each grade classification limit is $\pm 0.1\text{V}$ *4. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$ *5. Dominant wavelength maximum tolerance for each grade classification limit is $\pm 1\text{nm}$ *6. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity◆ VF/ I_V / λ_D Grade Classification (Ta=25°C)

Test Condition @ $I_F = 20\text{mA}$					
VF[V]		Luminous Intensity[mcd]		Dominant wavelength [nm]	
Blue	Yellow	Blue	Yellow	Blue	Yellow
2.9 - 3.8	1.8 - 2.4	K : 68 - 100	L : 100 - 155	460~475	585~595
		L : 100 - 155	M : 155 - 230		
		M : 155 - 230	N : 230 - 350		

(Do not use to combine grade classification. It must be used separately grade classification)

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5. Characteristic Diagrams

Fig. 1 $I_F - V_F$

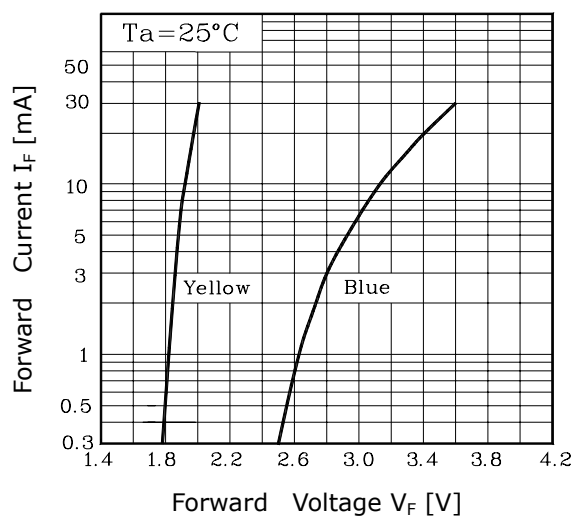


Fig. 2 $I_V - I_F$

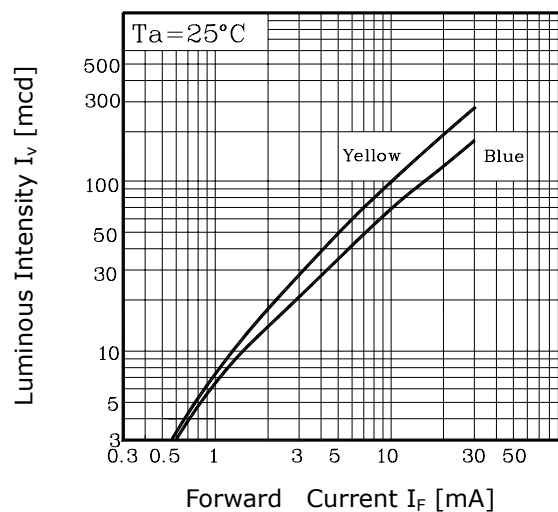


Fig. 3 $I_F - T_a$

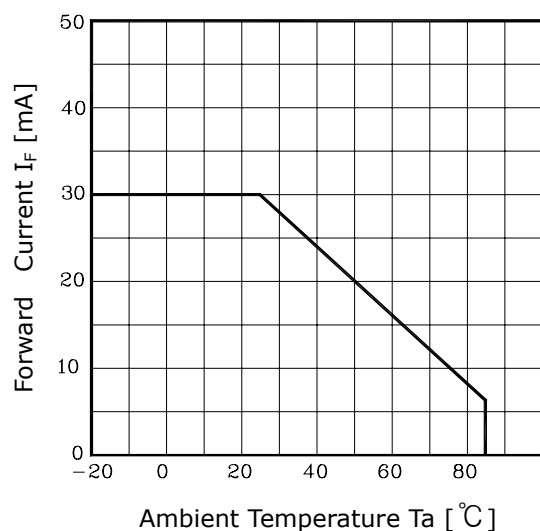


Fig. 4 Spectrum Distribution

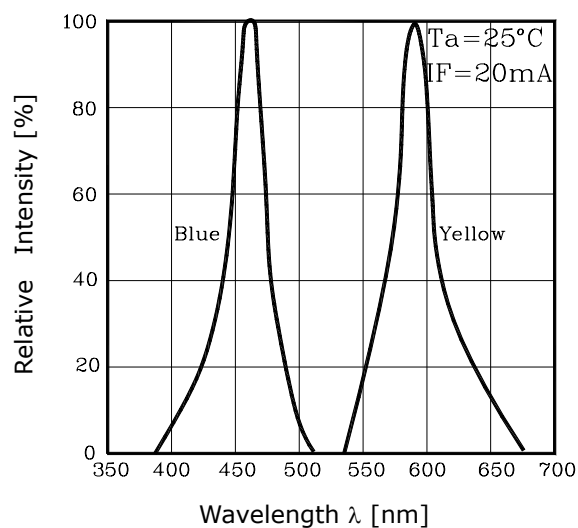
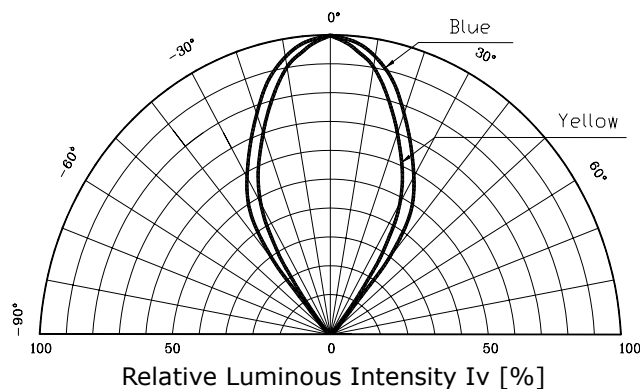


Fig. 5 Radiation Diagram



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