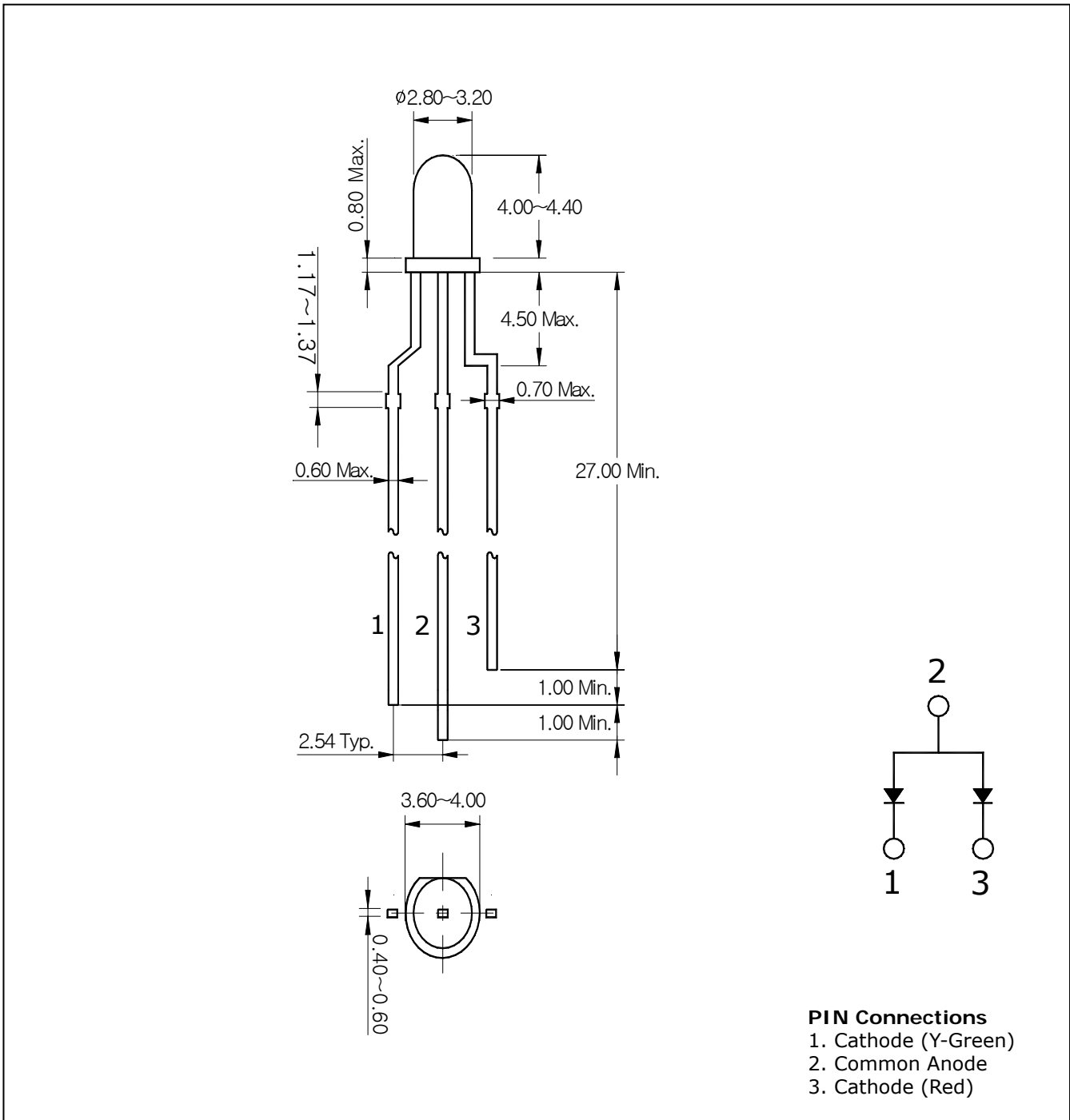


Features

- Milky diffusion lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- Radiation color (Red, Yellow-Green)
- Low power consumption

Outline Dimensions

unit : mm



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating		Unit
		Red	Y-Green	
Power dissipation	P_D	75	50	mW
Forward current	I_F	30	20	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
Soldering 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	$I_F= 20mA$	-	2.1	2.5	V
			-	2.2	2.5	
Luminous intensity	I_V	$I_F= 20mA$	-	30	-	mcd
			-	10	-	
Peak wavelength	λ_P	$I_F= 20mA$	-	660	-	nm
			-	570	-	
Spectrum bandwidth	$\Delta\lambda$	$I_F= 20mA$	-	20	-	nm
			-	30	-	
Reverse current	I_R	$V_R=4V$	-	-	10	uA
*3Half angle	$\theta_{1/2}$	$I_F= 20mA$	-	±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 $I_F - V_F$

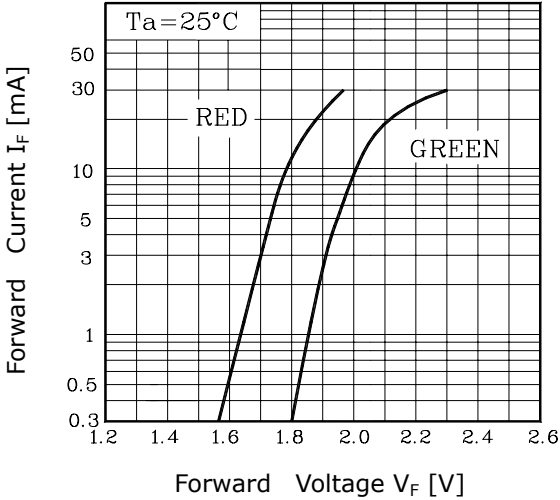


Fig. 2 $I_V - I_F$

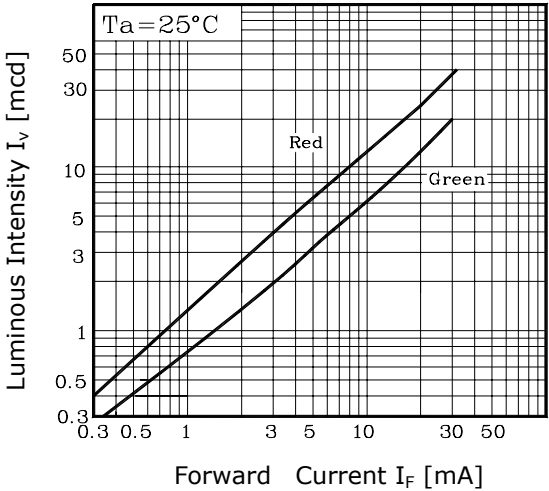


Fig. 3 $I_F - T_a$

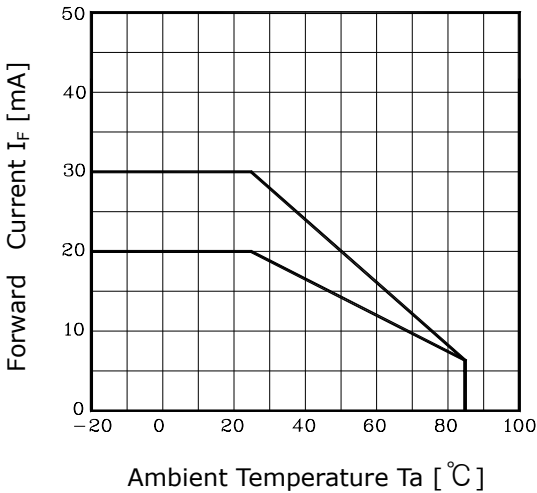


Fig.4 Spectrum Distribution

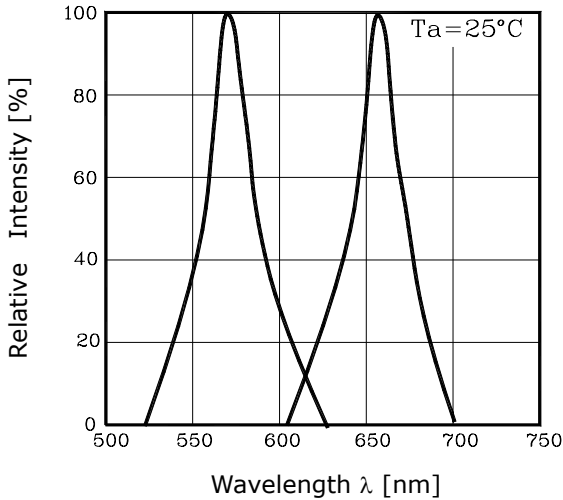
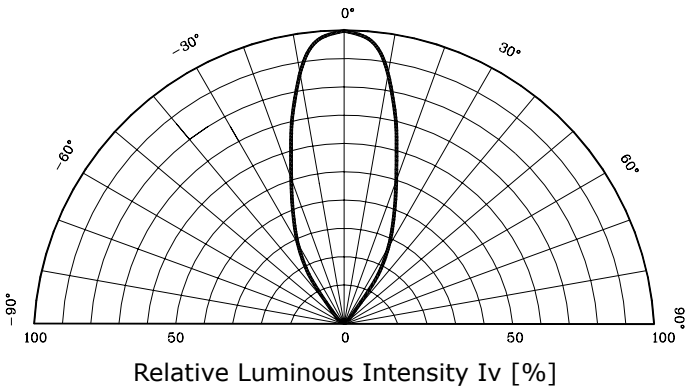


Fig. 5 Radiation Diagram



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