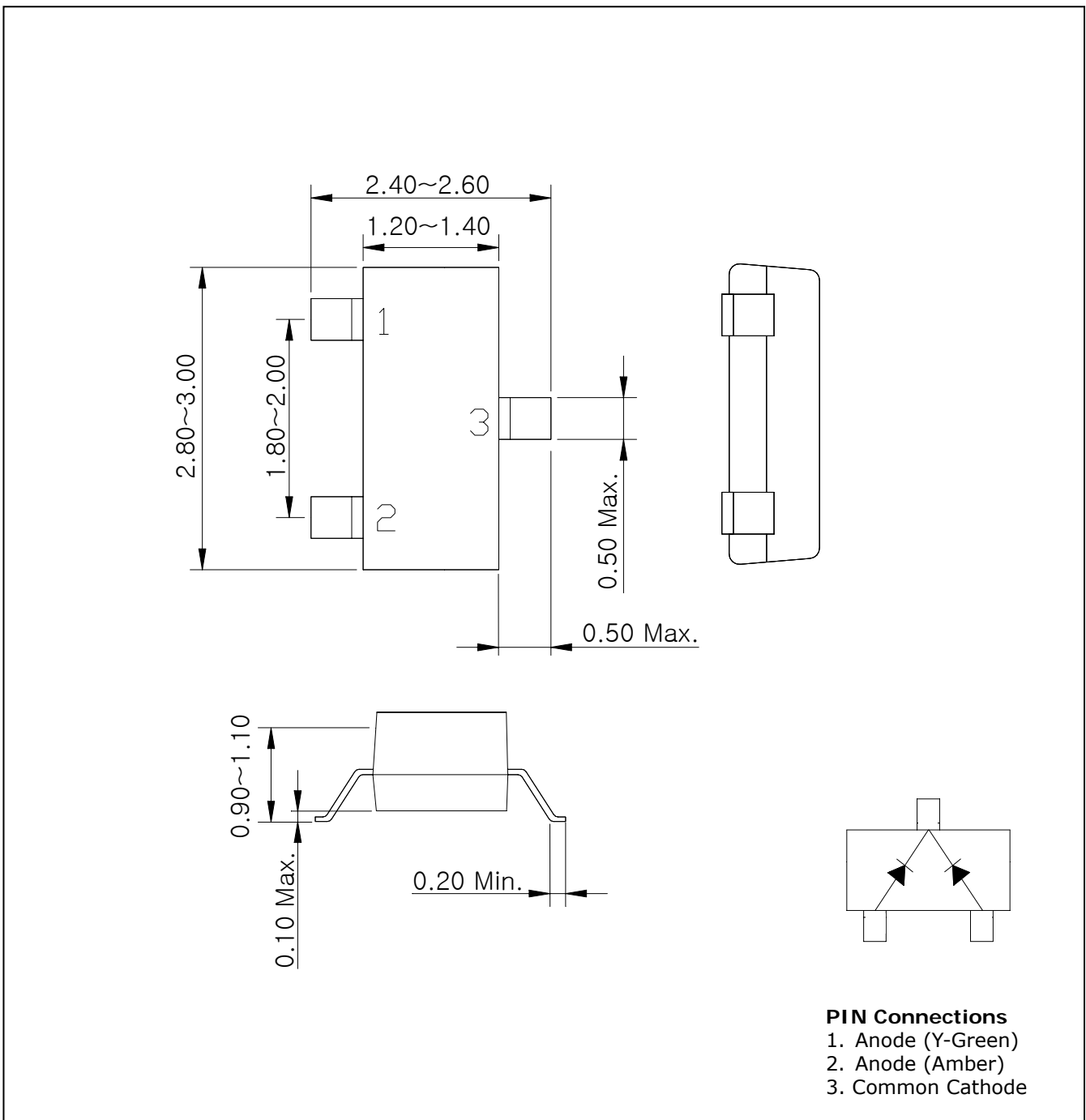


Features

- Colorless diffusion lens type
- Compact type
- Radiation size 2.9mm(L)×1.3mm(W) surface mount type.
- Radiation color (Amber, Y-Green)

Outline Dimensions

unit : mm



Absolute Maximum Ratings

(Ta=25°C)

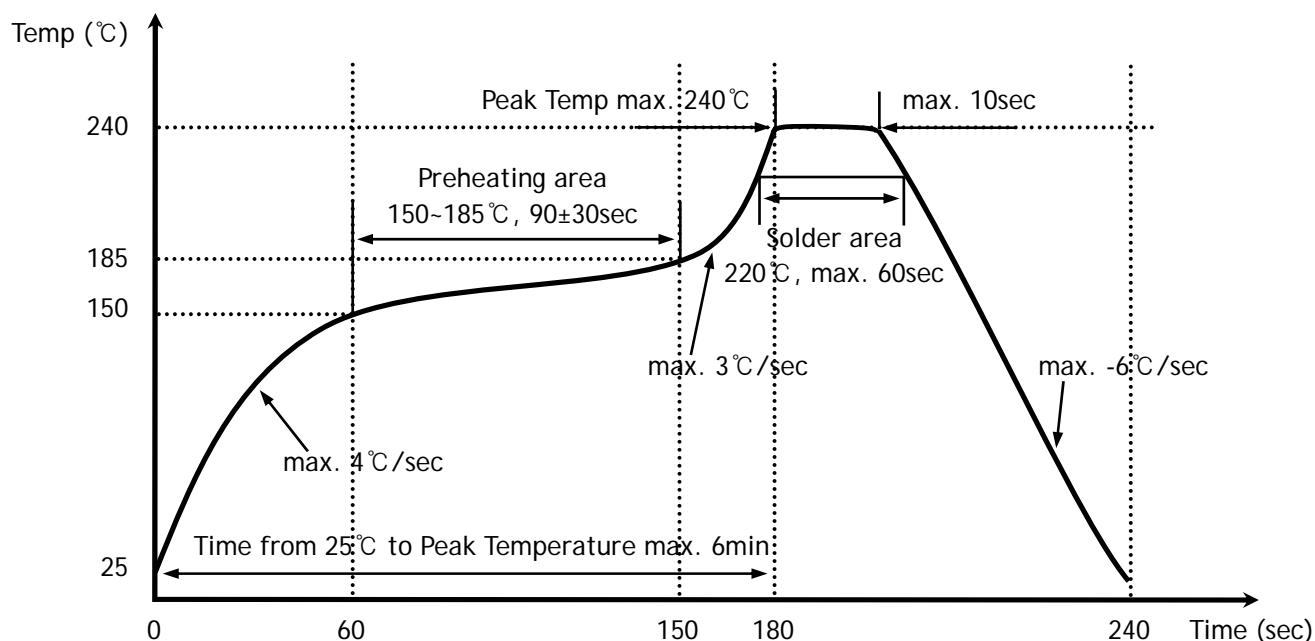
Characteristic	Symbol	Rating		Unit
		Amber	Y-Green	
Power dissipation	P _D	75	75	mW
Forward current	I _F	30	30	mA
*1 Peak forward Current	I _{FP}	50	50	mA
Reverse voltage	V _R	4	4	V
Operating temperature range	T _{opr}	-25 ~ 85		°C
Storage temperature range	T _{stg}	-30 ~ 100		°C
*2 Soldering temperature	T _{sol}	240°C for 10 seconds		

*1. Duty ratio = 1/16, Pulse width = 0.1ms

*2. Recommended reflow soldering temperature profile

- Preheating 150°C to 185°C within 120 seconds soldering 240°C within 10 seconds

Gradual cooling (Avoid quenching)



Electrical Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit	
Forward voltage	V _F	Amber	I _F = 20mA	-	2.0	2.5	V
		Y-Green		-	2.2	2.5	
Luminous intensity	I _V	Amber	I _F = 20mA	-	6	-	mcd
		Y-Green		-	10	-	
Peak wavelength	λ _P	Amber	I _F = 20mA	-	630	-	nm
		Y-Green		-	570	-	
Spectrum bandwidth	Δλ	Amber	I _F = 20mA	-	35	-	nm
		Y-Green		-	30	-	
Reverse current	I _R	V _R =4V	-	-	10	uA	
*3 Half angle	θ _{1/2}	I _F = 20mA	-	-	±55	-	deg
	X			±70			
	Y						

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

Characteristic Diagrams

Fig. 1 $I_F - V_F$

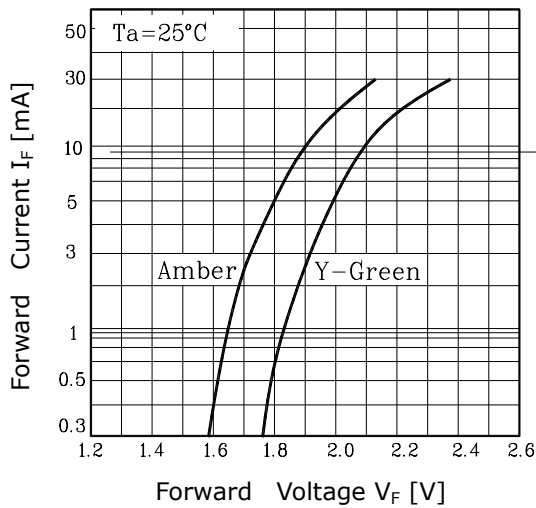


Fig. 2 $I_V - I_F$

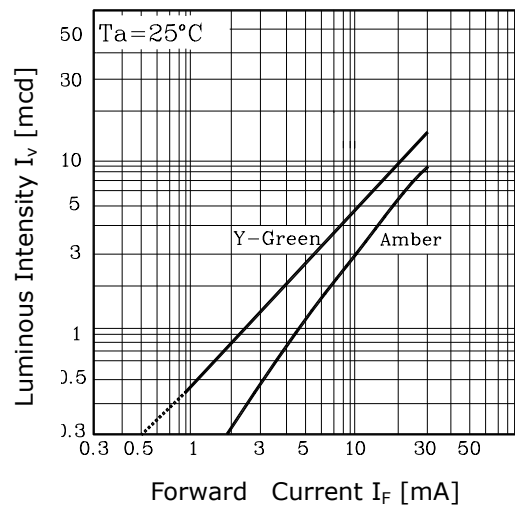


Fig. 3 $I_F - T_a$

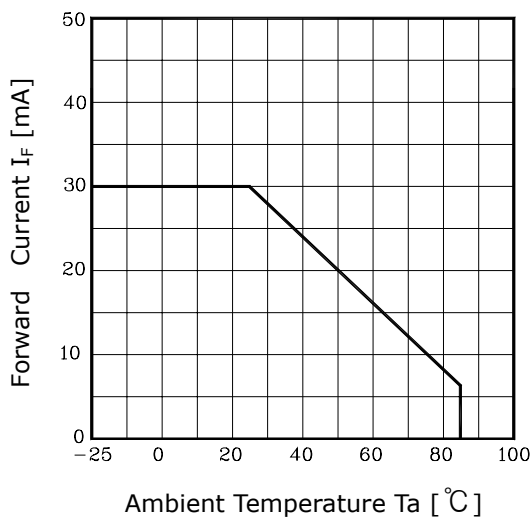


Fig.4 Spectrum Distribution

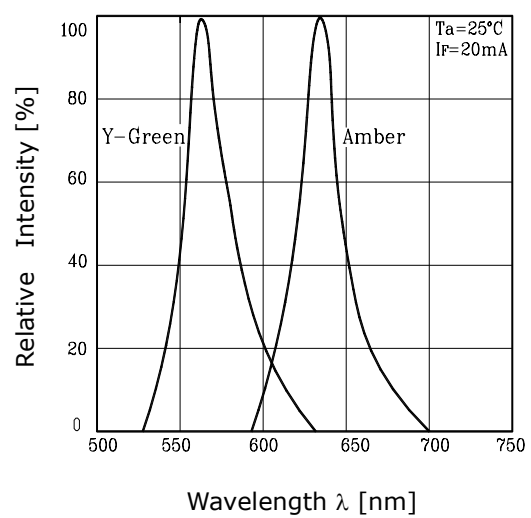


Fig. 5-1 Radiation Diagram(X)

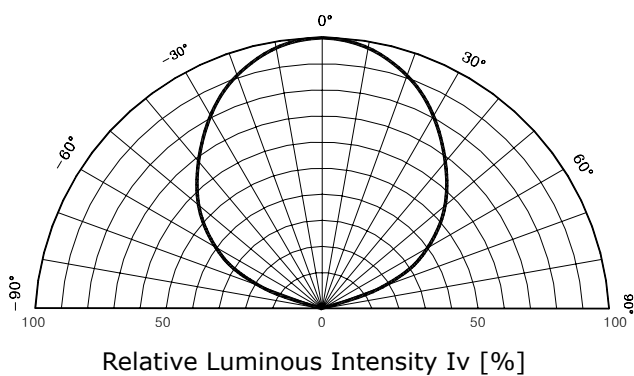
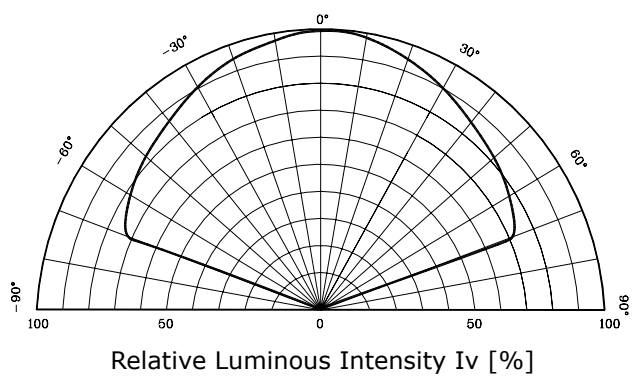


Fig. 5-2 Radiation Diagram(Y)



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