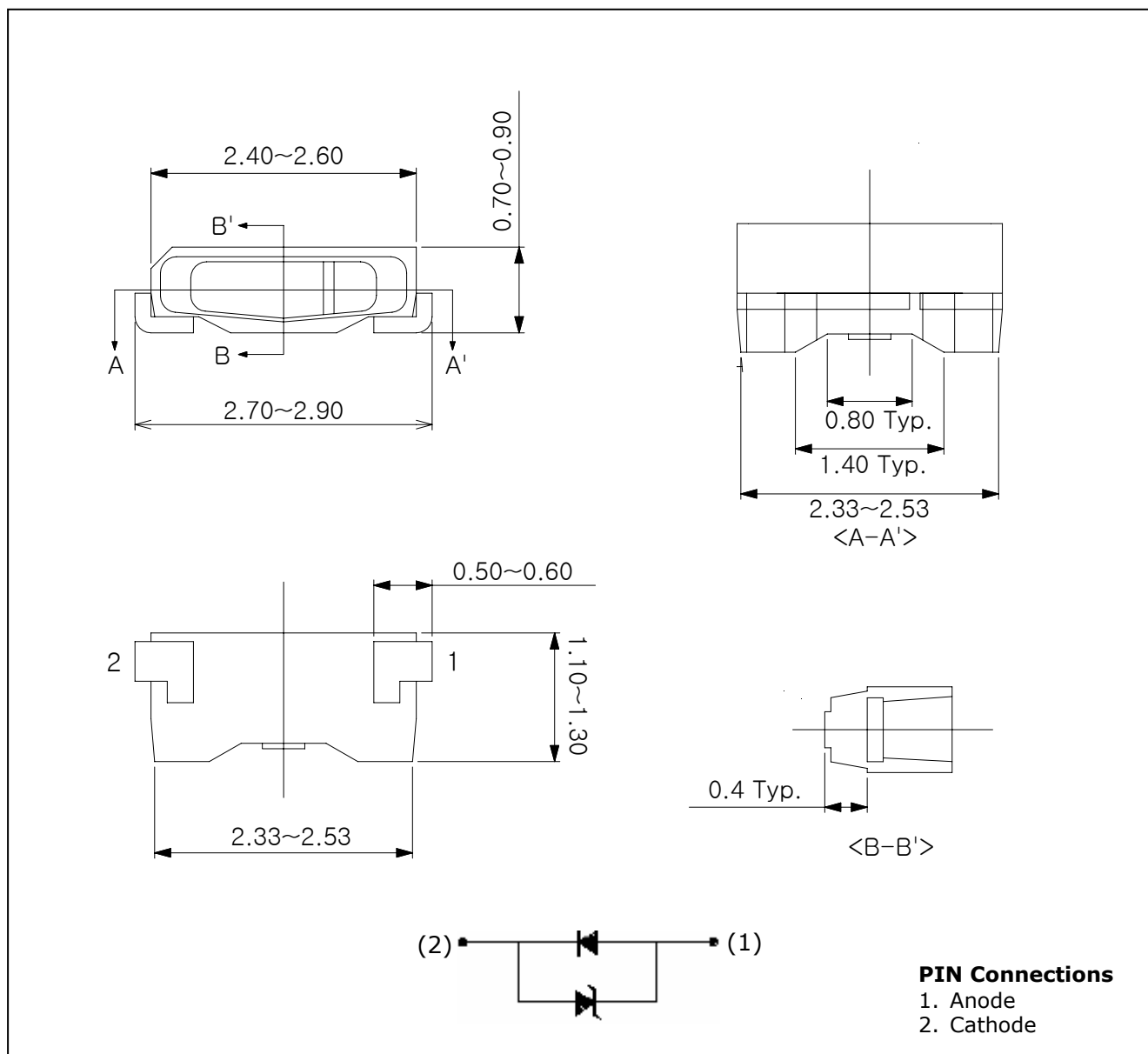


**Features**

- 2.8mm(L)×1.2mm(W) small size surface mount type
- Thin package of 0.8mm(H) thickness
- Transparency SMD side view type
- Wide viewing angle : 110°
- **E ; ESD Protected (±2.0KV, 3 Times @100pF, 1.5KΩ)**

**Outline Dimensions**

**unit : mm**



## Absolute Maximum Ratings

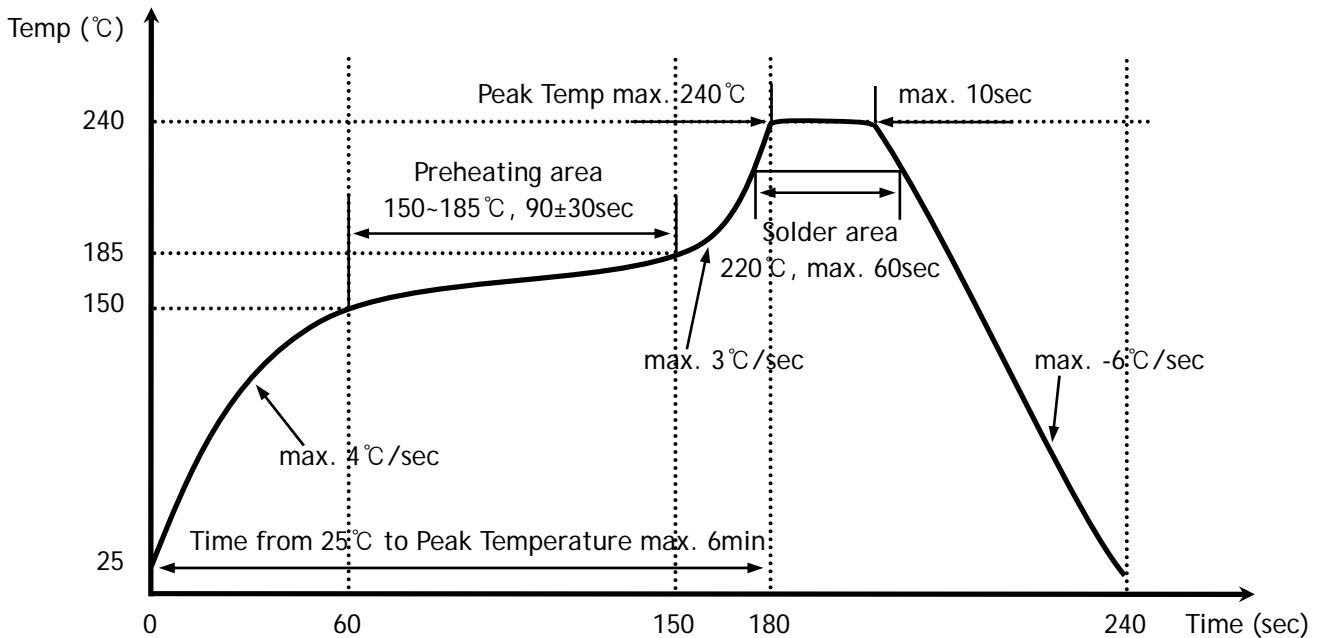
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	$P_D$	90	mW
Forward current	$I_F$	25	mA
*1 Peak forward current	$I_{FP}$	50	mA
Operating temperature range	$T_{opr}$	-30~85	°C
Storage temperature range	$T_{stg}$	-40~100	°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	$V_F$	$I_F= 20mA$	3.0	-	3.6	V
*3 Luminous intensity	$I_V$	$I_F= 20mA$	68	-	230	mcd
Dominant wavelength	$\lambda_D$	$I_F= 20mA$	460	465	470	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F= 20mA$	-	35	-	nm
*4 Half angle	$\theta_{1/2}$	$I_F= 20mA$		±55		deg

\*3. Luminous intensity maximum tolerance for each grade classification limit is  $\pm 18\%$   
(The test result of  $I_F=20\text{mA}$  is only for reference)

\*4.  $\theta_{1/2}$  is the off-axis angle where the luminous intensity is 1/2 the peak intensity

●  $V_F / I_V / \lambda_D$  Grade Classification ( $T_a=25^\circ\text{C}$ )

Test Condition @ $I_F = 20\text{mA}$		
Forward Voltage [V]	Luminous Intensity [mcd]	Dominant Wavelength [nm]
1 : 3.0~3.3	K : 68~100	a : 460~465
	L : 100~155	
2 : 3.3~3.6	M : 155~230	b : 465~470

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

Characteristic Diagrams

Fig. 1  $I_F - V_F$

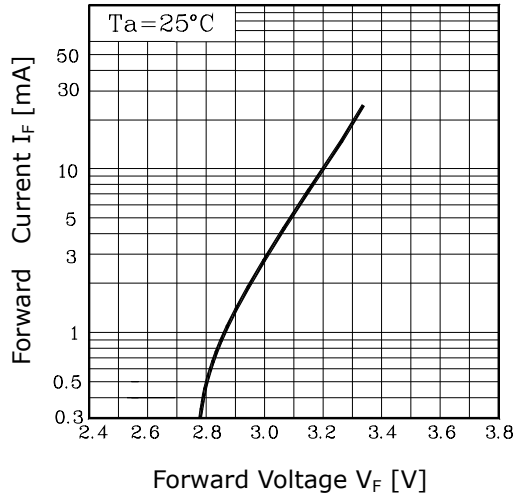


Fig. 2  $I_V - I_F$

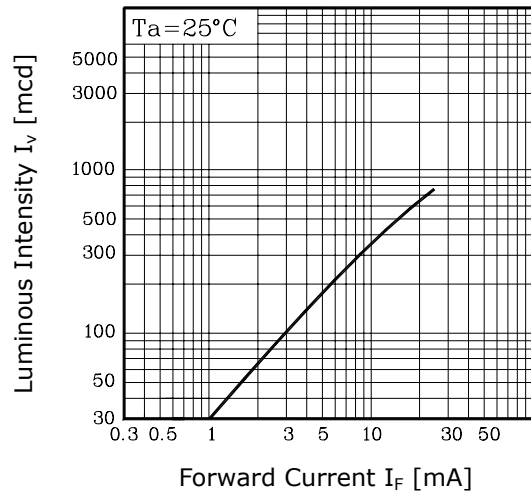


Fig. 3  $I_F - T_a$

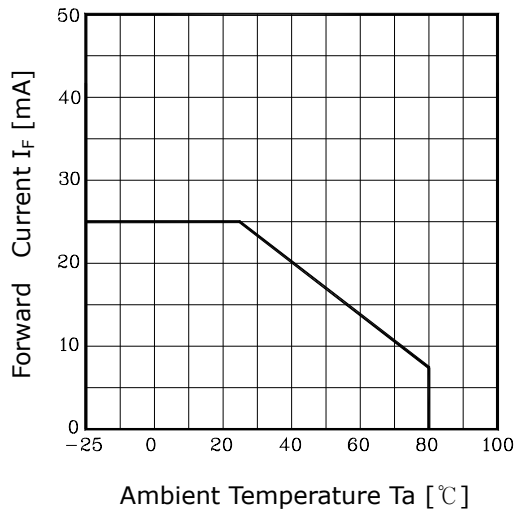


Fig.4 Spectrum Distribution

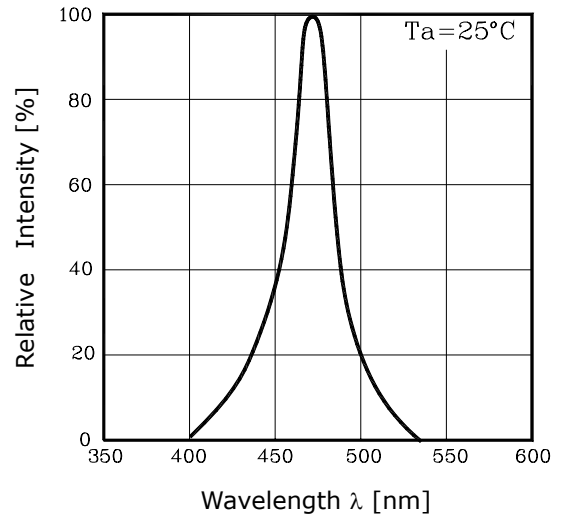
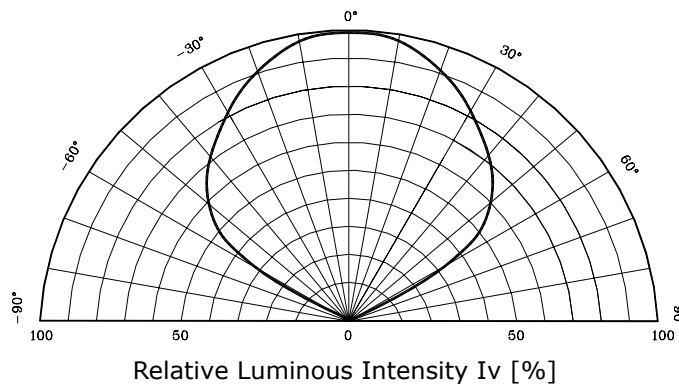


Fig. 5-1 Radiation Diagram(X)



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