

### 1. Features

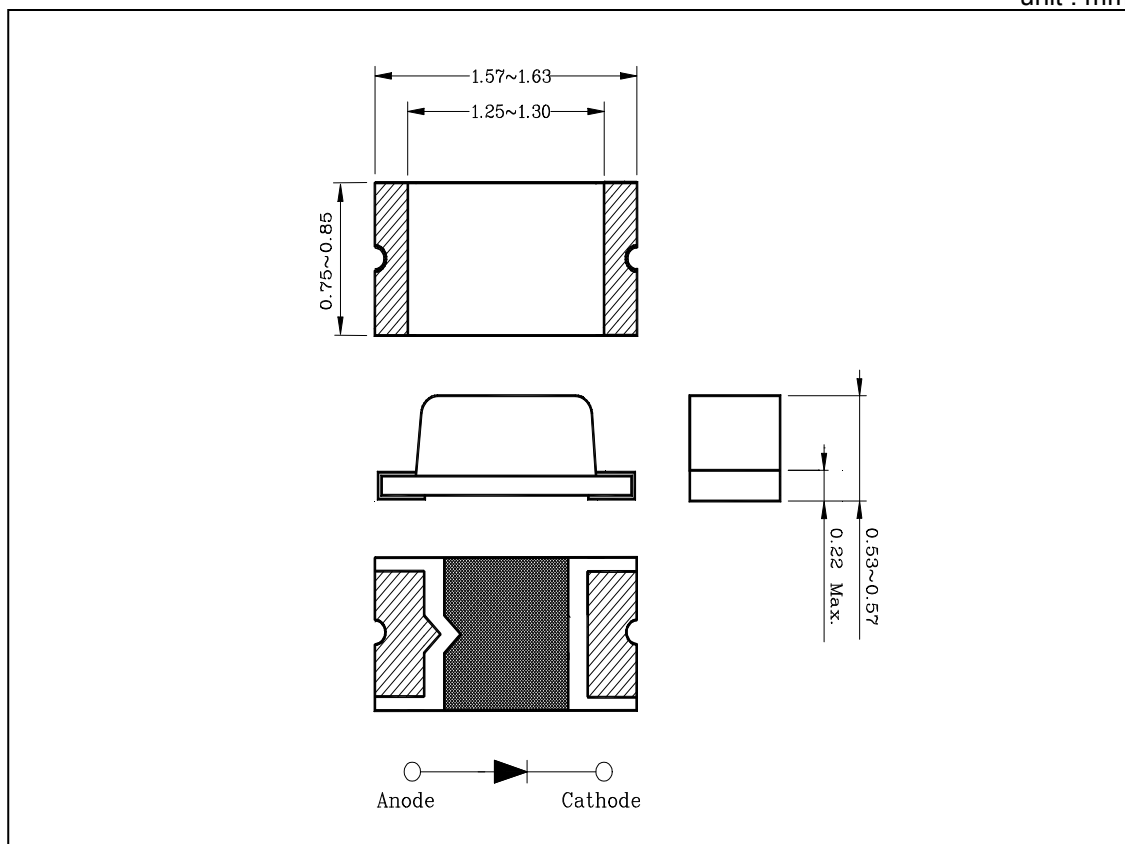
- ◆ 1.6mm(L)×0.8mm(W) small size surface mount type
- ◆ Thin package of 0.55mm(H) thickness
- ◆ Transparent clear lens optic
- ◆ Low power consumption type chip led

### 2. Applications

- ◆ LCD backlighting
- ◆ Keypad backlighting
- ◆ Symbol backlighting
- ◆ Front panel indicator lamp

### 3. Outline Dimensions

unit : mm



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4. Absolute Maximum Ratings

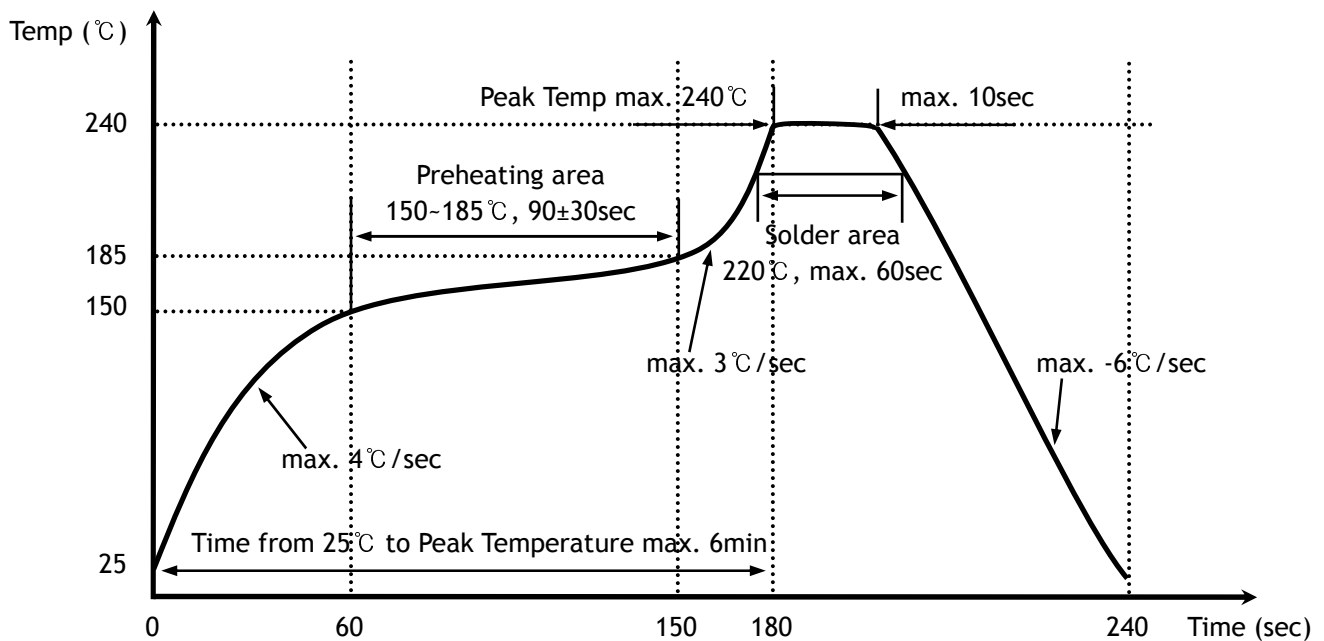
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	$P_D$	58	mW
Forward current	$I_F$	25	mA
*1 Peak forward current	$I_{FP}$	50	mA
Reverse voltage	$V_R$	4	V
Operating temperature range	$T_{opr}$	-25~80	°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 90±30 seconds
- Soldering 240°C within 10 seconds
- Gradual cooling (Avoid quenching)



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5. Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit	
Forward voltage	$V_F$	$I_F=10\text{mA}$	1.8	-	2.3	V	
*3 Luminous intensity	$I_V$	$I_F=10\text{mA}$	6	-	27	mcd	
Peak wavelength	$\lambda_P$	$I_F=10\text{mA}$	569	573	578	nm	
Spectrum bandwidth	$\Delta\lambda$	$I_F=10\text{mA}$	-	30	-	nm	
Reverse current	$I_R$	$V_R=4\text{V}$	-	-	10	$\mu\text{A}$	
*4 Half angle	$\theta/2$	X	$I_F=10\text{mA}$	-	$\pm 65$	-	deg
		Y		-	$\pm 70$	-	

\*3.The test result of  $I_F=10\text{mA}$  is only for reference

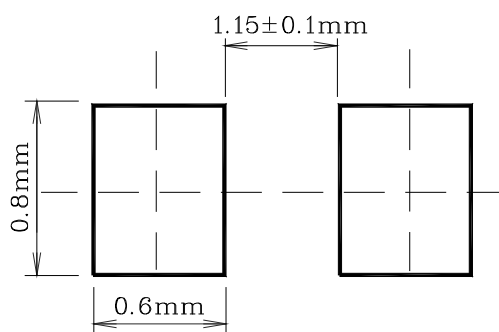
\*4. $\theta/2$  is the off-axis angle where the luminous intensity is 1/2 the peak intensity

◆  $V_F / I_V / \lambda_P$  Grade Classification (Ta=25°C)

Test Condition @ $I_F=10\text{mA}$		
Forward Voltage [V]	Luminous Intensity [mcd]	Peak Wavelength [nm]
1 : 1.8~2.0	F : 6~10	a : 569~572
	G : 10~17	b : 572~575
2 : 2.0~2.3	H : 17~27	c : 575~578

(Each  $V_F$ ,  $I_V$ ,  $\lambda_P$  range did not consider a margin. Please refer to  $\pm 0.1\text{V}$  of  $V_F$  range,  $\pm 18\%$  of  $I_V$  range,  $\pm 1\text{nm}$  of  $\lambda_P$  range as a permitted limit and do not use to combine grade classification. It must be used separately grade classification)

\* Recommended Soldering Land Pattern



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6. Characteristic Diagrams

Fig. 1  $I_F - V_F$

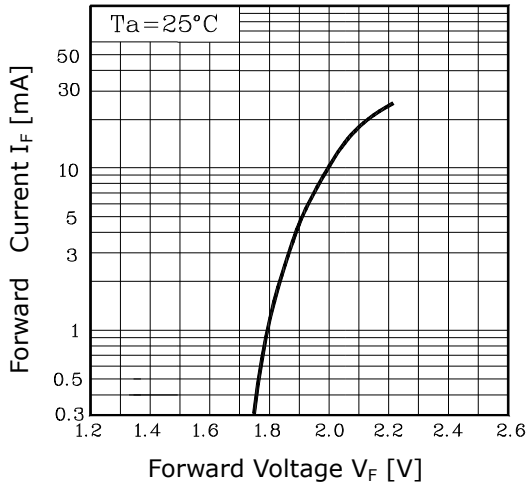


Fig. 2  $I_V - I_F$

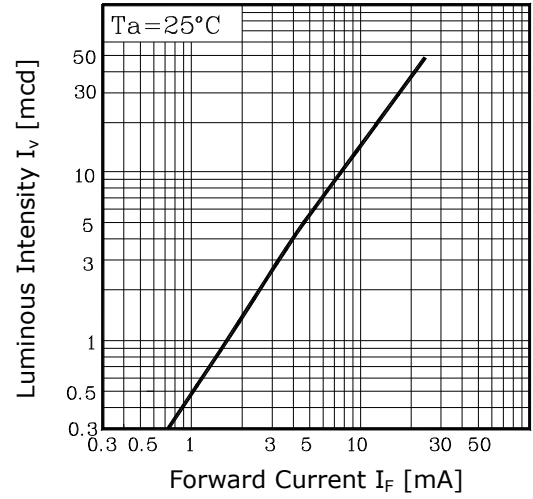


Fig. 3  $I_F - T_a$

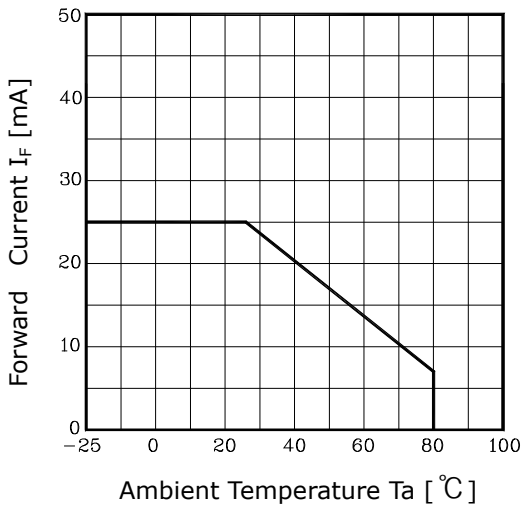


Fig.4 Spectrum Distribution

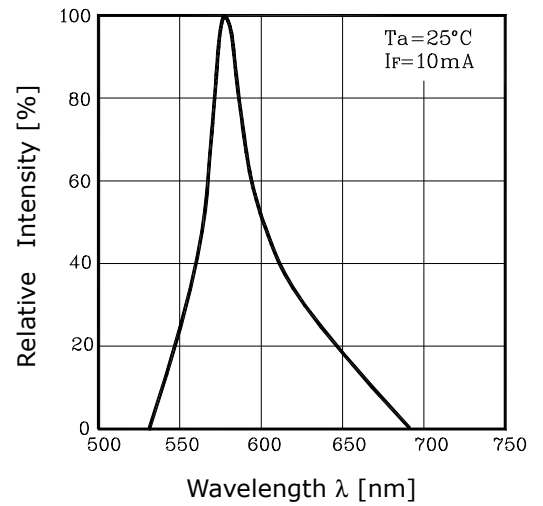


Fig. 5-1 Radiation Diagram(X)

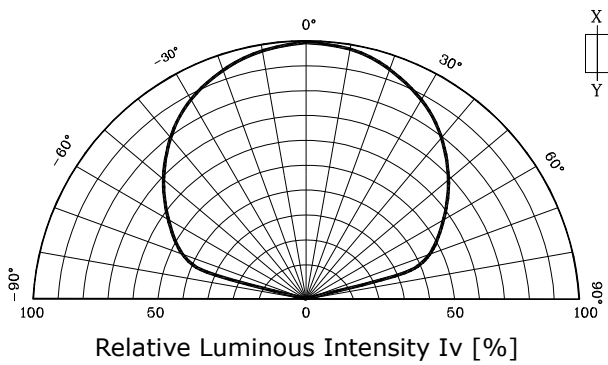
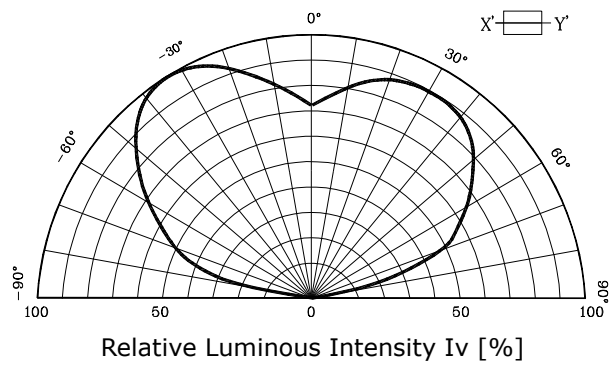


Fig. 5-2 Radiation Diagram(Y)



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