

1. Features

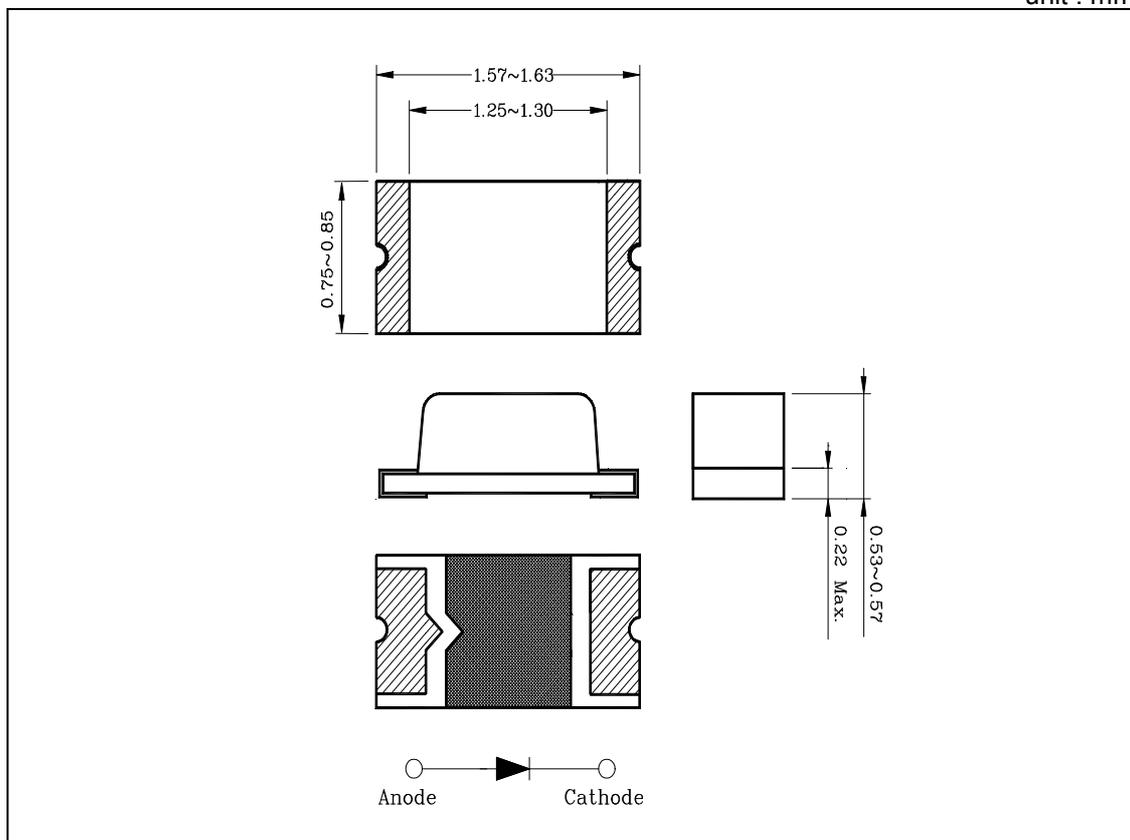
- ◆ 1.6mm(L)×0.8mm(W) small size surface mount type
- ◆ Thin package of 0.55mm(H) thickness
- ◆ Transparent clear lens optic
- ◆ Low power consumption type chip led

2. Applications

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

3. Outline Dimensions

unit : mm



The contents of this data sheet are subject to change without advance notice for the purpose of improvement.
When using this product, would you please refer to the latest specifications.

4. Absolute Maximum Ratings

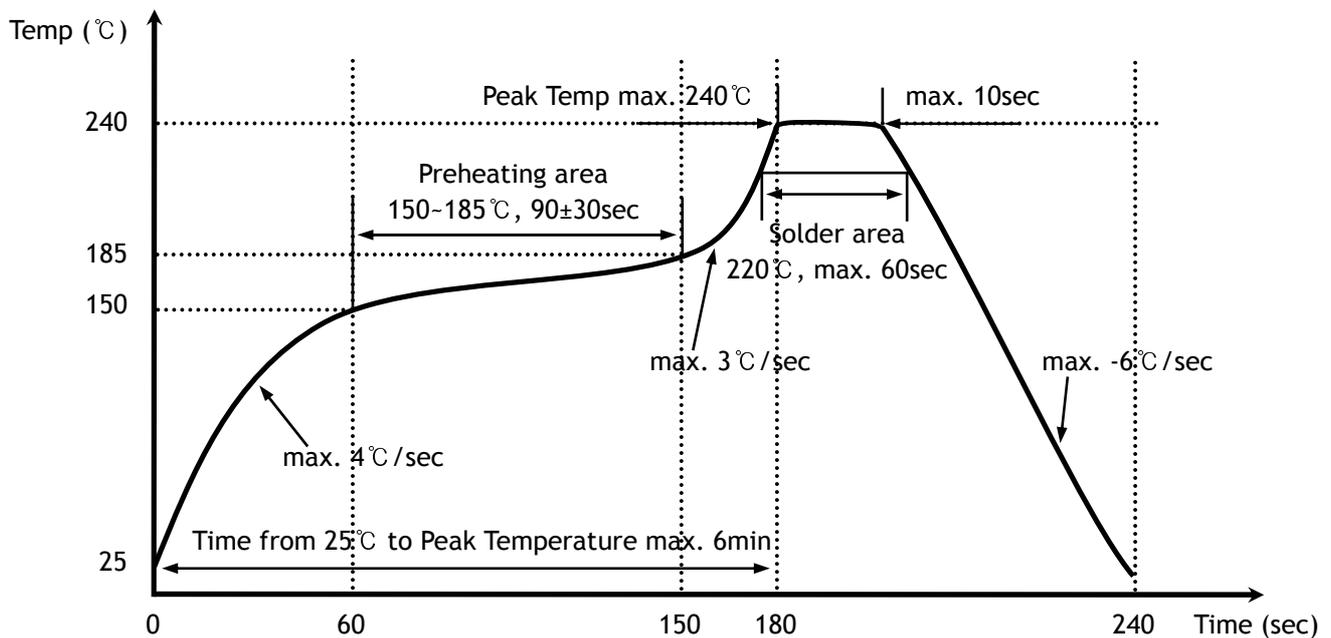
(Ta=25°C)

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)



The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.

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	λ_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	μA	
*4 Half angle	$\theta/2$	X	$I_F=10\text{mA}$	-	± 65	-	deg
		Y		-	± 70	-	

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

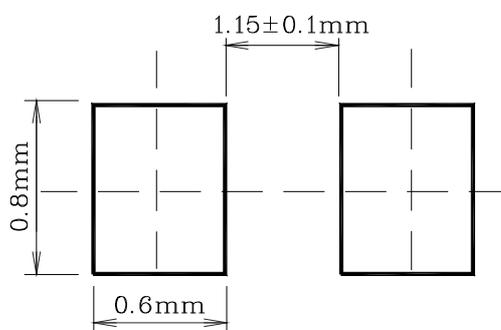
*4. $\theta/2$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

◆ $V_F / I_V / \lambda_P$ 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 , λ_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 λ_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



The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.

6. Characteristic Diagrams

Fig. 1 $I_F - V_F$

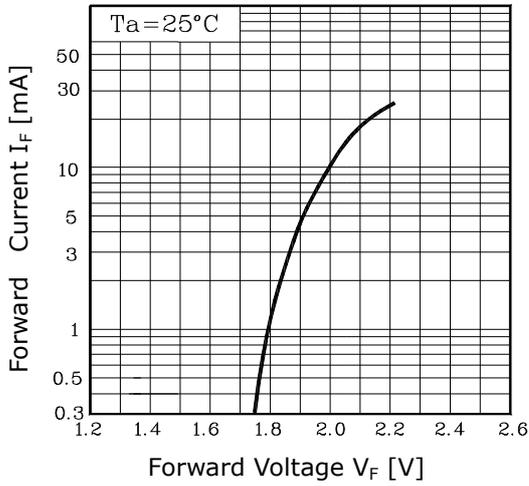


Fig. 2 $I_V - I_F$

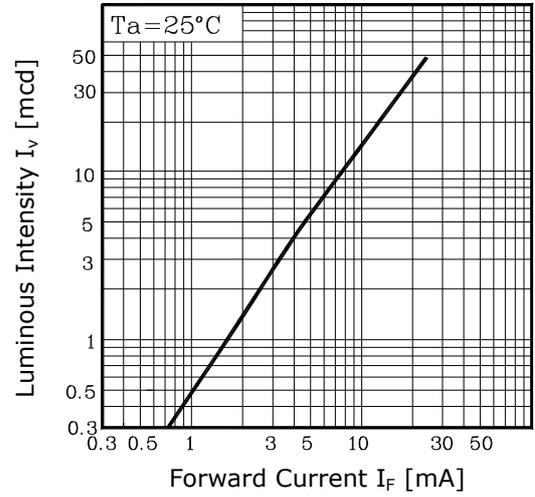


Fig. 3 $I_F - T_a$

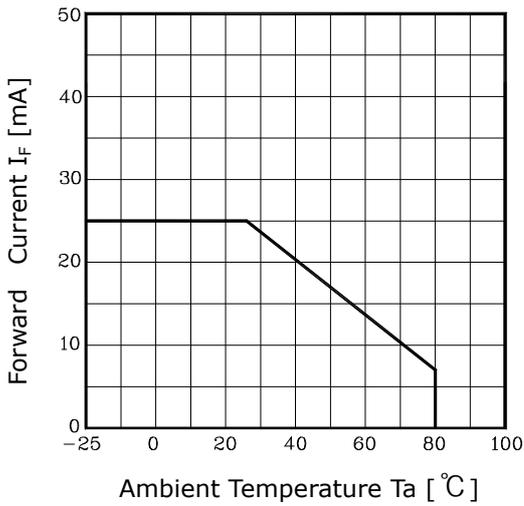


Fig.4 Spectrum Distribution

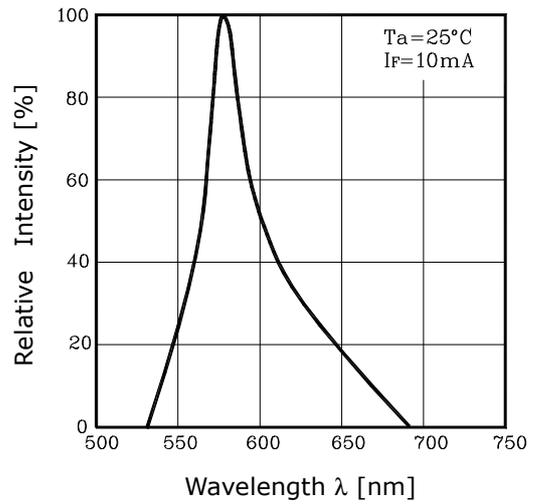


Fig. 5-1 Radiation Diagram(X)

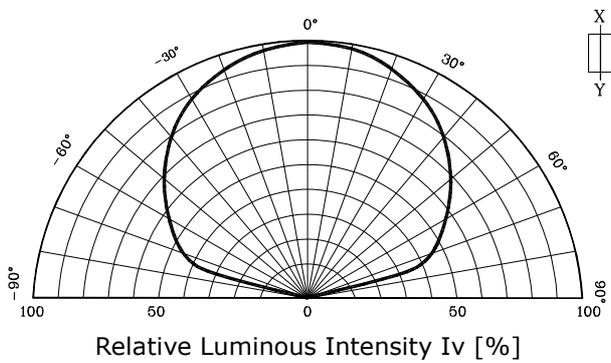
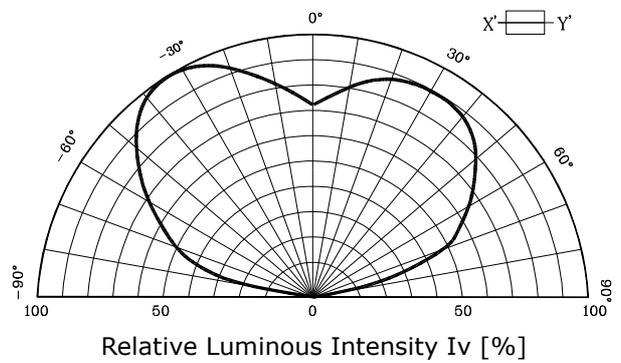


Fig. 5-2 Radiation Diagram(Y)



The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.