

**Features**

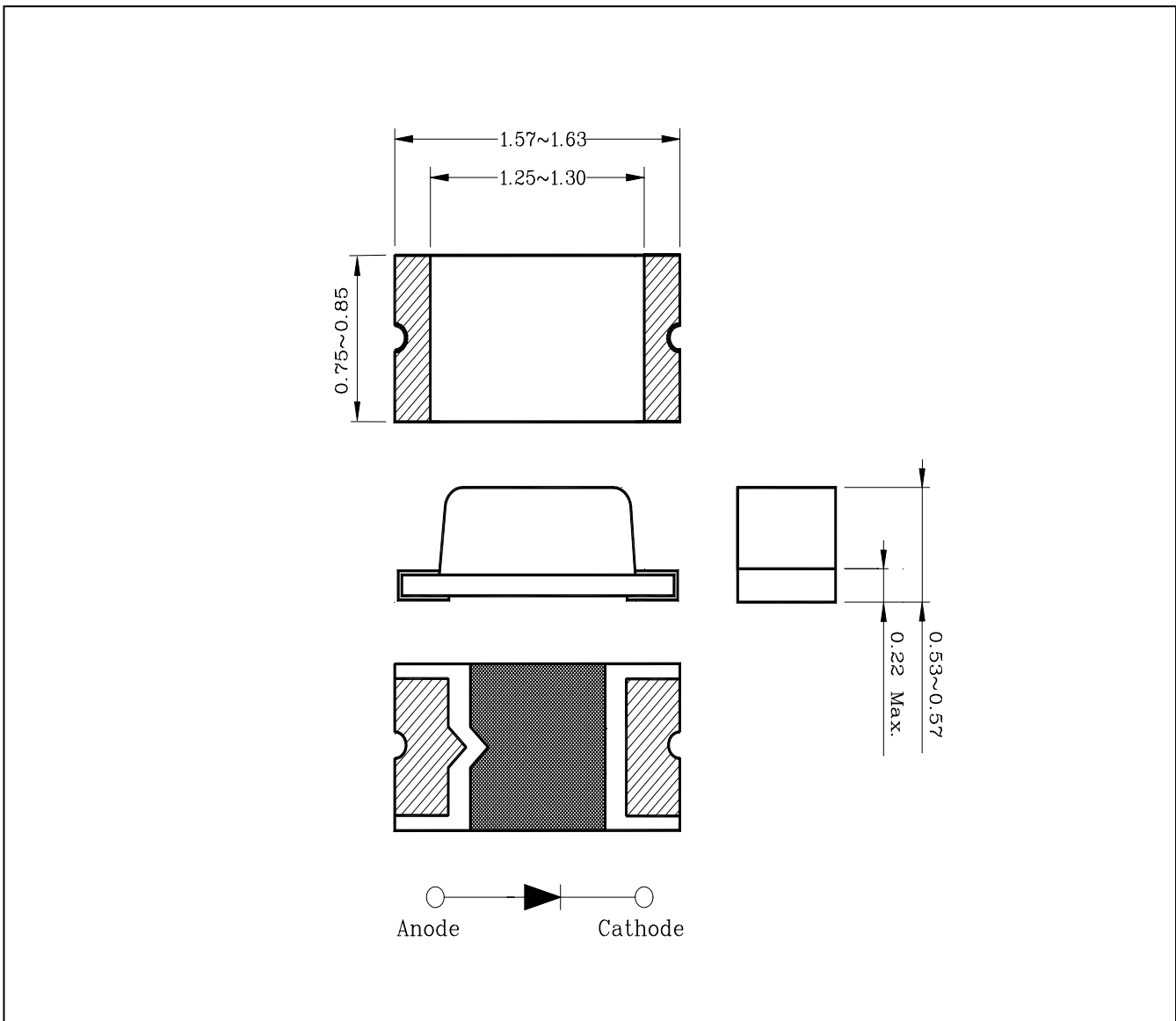
- 1.6mm(L)×0.8mm(W) small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- Low power consumption type chip led

**Applications**

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

**Outline Dimensions**

unit : mm



## Absolute Maximum Ratings

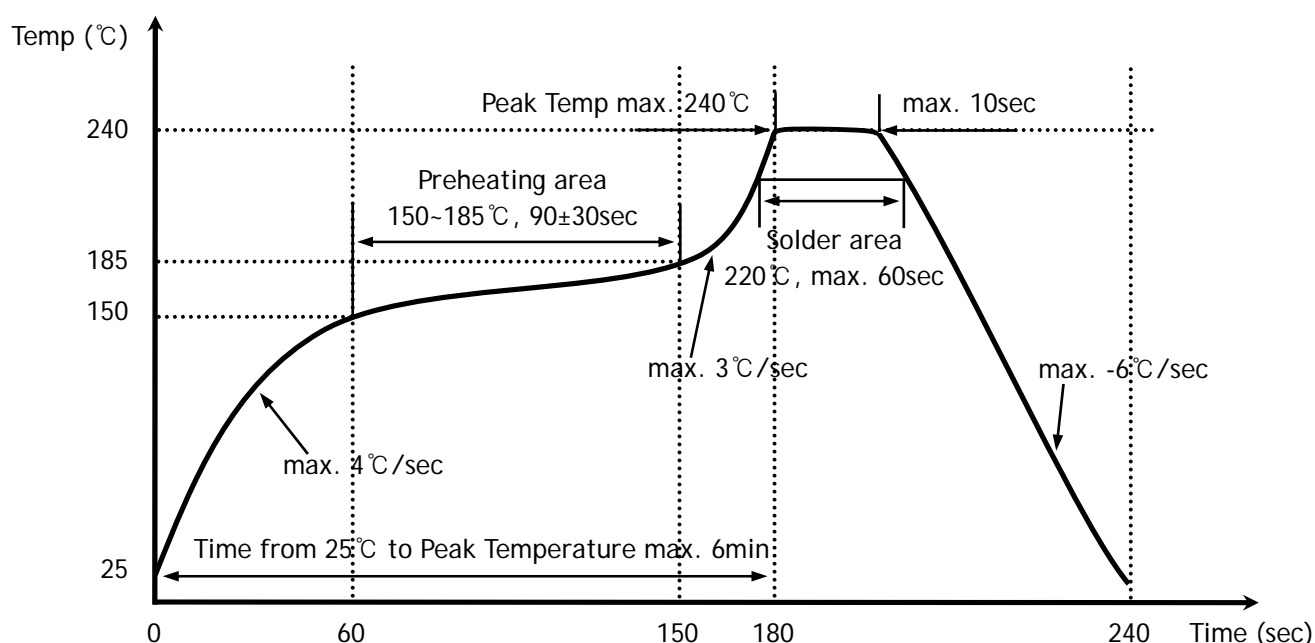
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P <sub>D</sub>	58	mW
Forward current	I <sub>F</sub>	25	mA
*1Peak forward current	I <sub>FP</sub>	50	mA
Reverse voltage	V <sub>R</sub>	4	V
Operating temperature range	T <sub>opr</sub>	-25~80	°C
Storage temperature range	T <sub>stg</sub>	-30~100	°C
*2Soldering temperature	T <sub>sol</sub>	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 <sub>F</sub>	I <sub>F</sub> = 10mA	1.8	-	2.3	V
*3Luminous intensity	I <sub>V</sub>	I <sub>F</sub> = 10mA	6	-	27	mcd
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> = 10mA	569	573	578	nm
Spectrum bandwidth	Δλ	I <sub>F</sub> = 10mA	-	30	-	nm
Reverse current	I <sub>R</sub>	V <sub>R</sub> =4V	-	-	10	μA
*4Half angle	θ1/2	I <sub>F</sub> = 10mA	-	±65	-	deg
			-	±70	-	

\*3. Luminous intensity maximum tolerance for each grade classification limit is  $\pm 18\%$   
 (The test result of  $I_F=10\text{mA}$  is only for reference)

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

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

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

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

Characteristic Diagrams

Fig. 1  $I_F - V_F$

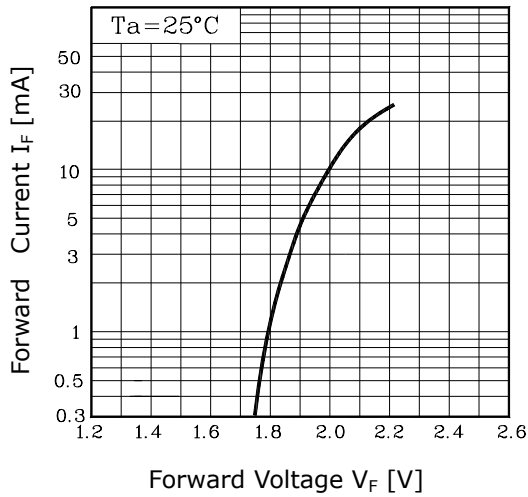


Fig. 2  $I_V - I_F$

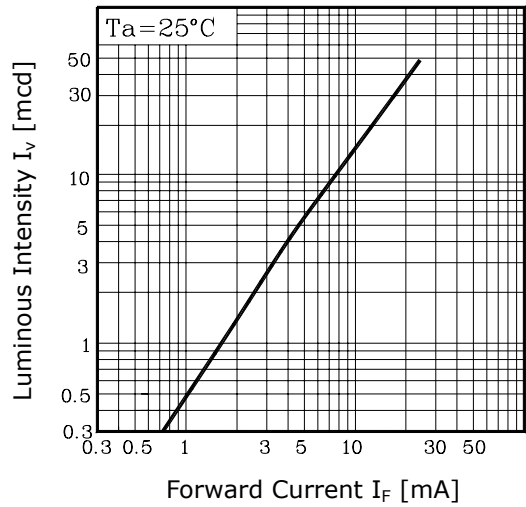


Fig. 3  $I_F - T_a$

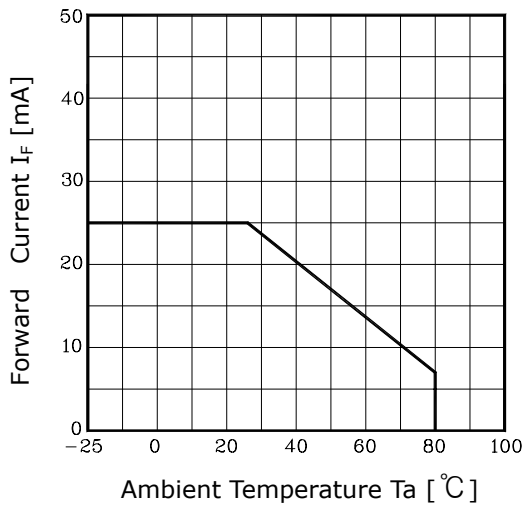


Fig.4 Spectrum Distribution

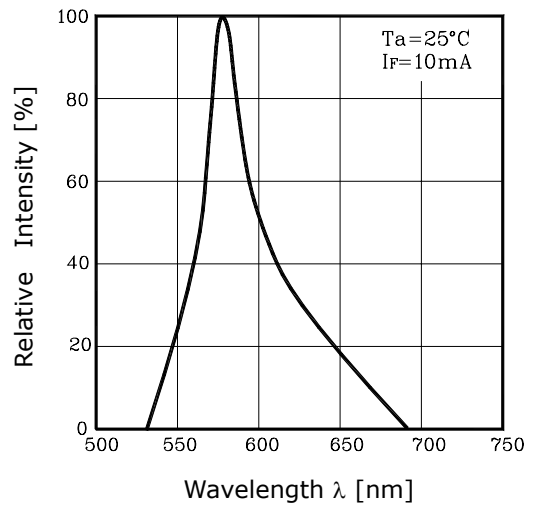


Fig. 5-1 Radiation Diagram(X)

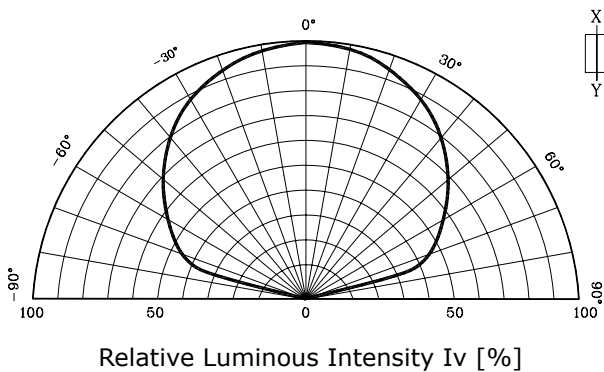
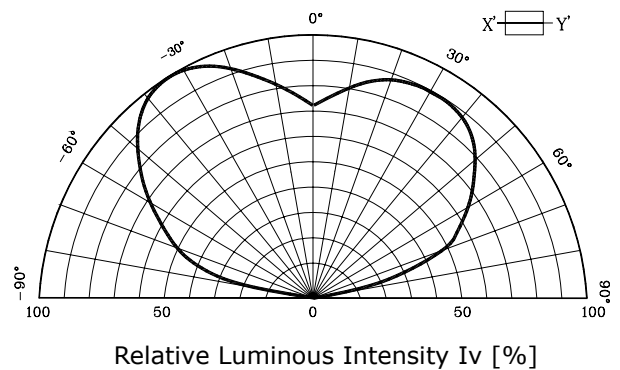


Fig. 5-2 Radiation Diagram(Y)



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