

Features

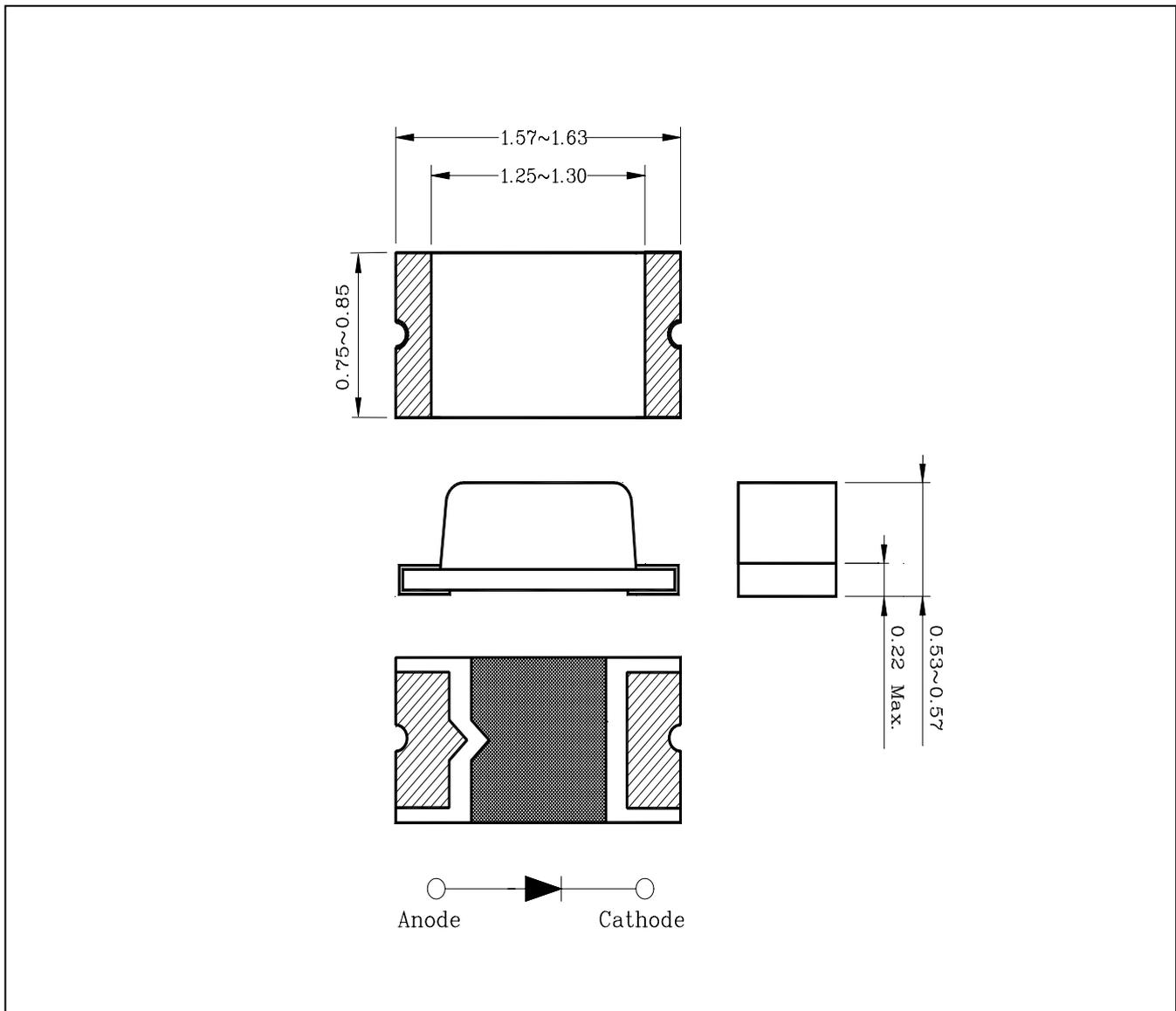
- 1.6mm(L)×0.8mm(W) small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- Low power consumption type chip led

Applications

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

Outline Dimensions

unit : mm



Absolute Maximum Ratings

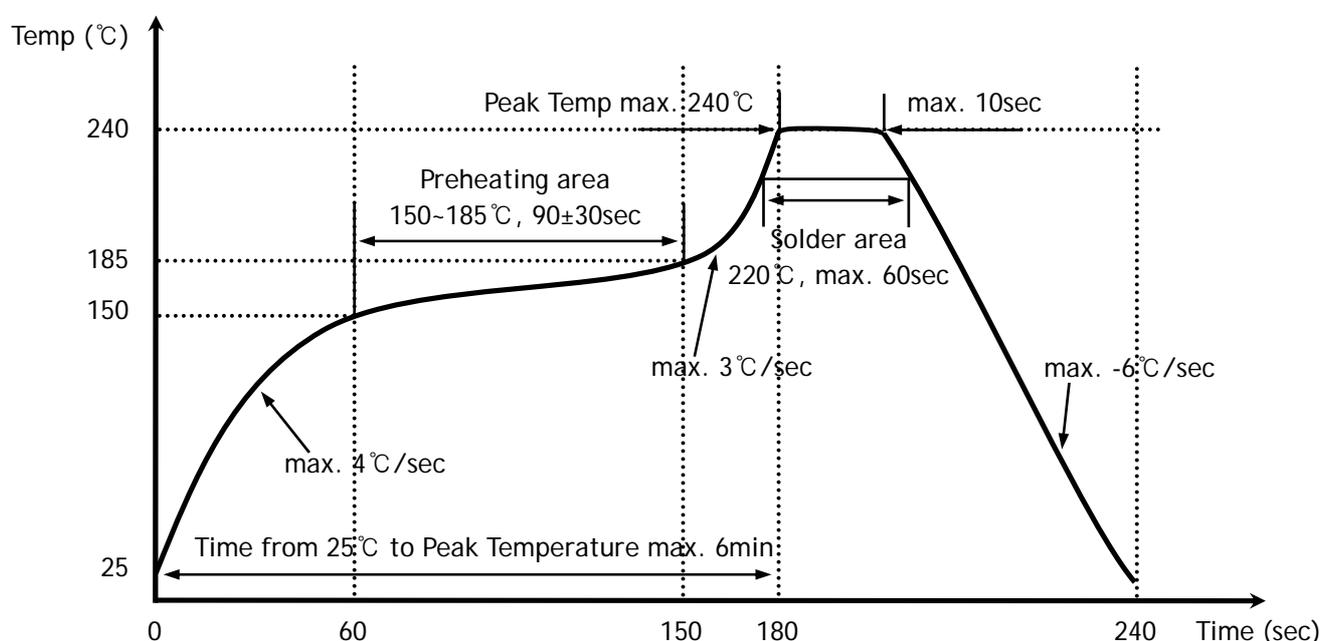
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P _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 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 = 10mA	1.8	-	2.3	V
* ³ Luminous intensity	I _V	I _F = 10mA	6	-	27	mcd
Peak wavelength	λ _P	I _F = 10mA	569	573	578	nm
Spectrum bandwidth	Δλ	I _F = 10mA	-	30	-	nm
Reverse current	I _R	V _R =4V	-	-	10	μA
* ⁴ Half angle	θ1/2	I _F = 10mA	-	±65	-	deg
			-	±70	-	deg

*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 $I_F - V_F$

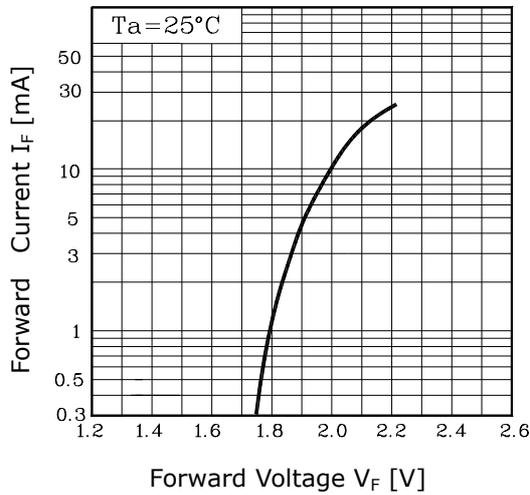


Fig. 2 $I_V - I_F$

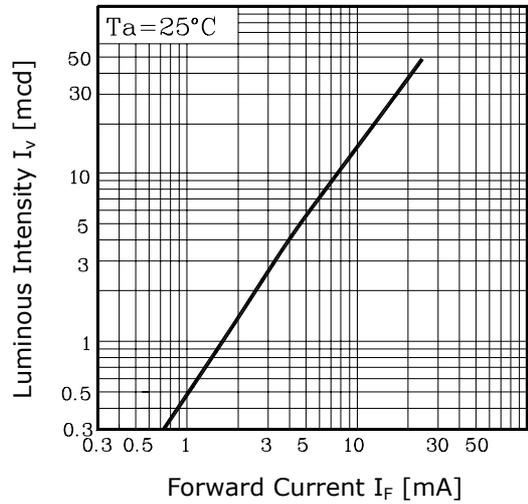


Fig. 3 $I_F - T_a$

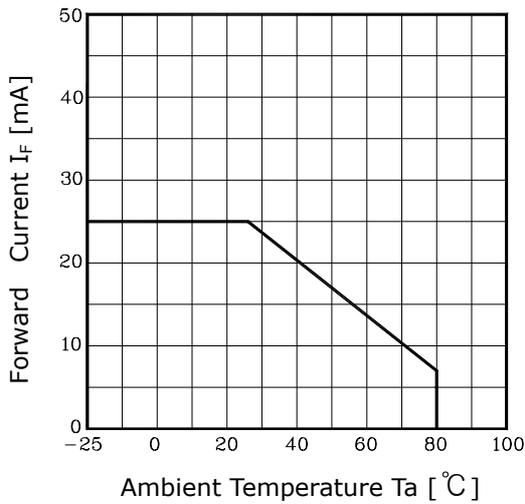


Fig.4 Spectrum Distribution

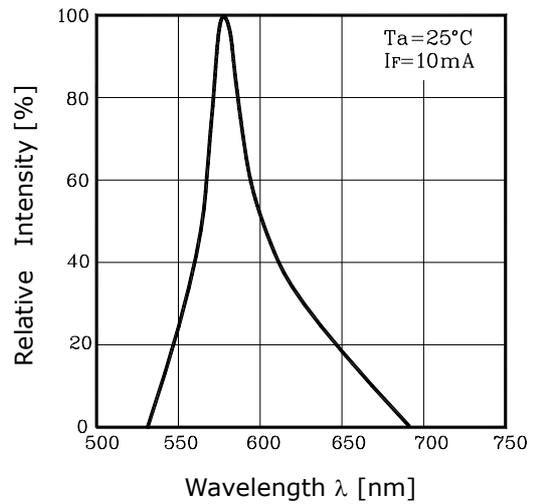


Fig. 5-1 Radiation Diagram(X)

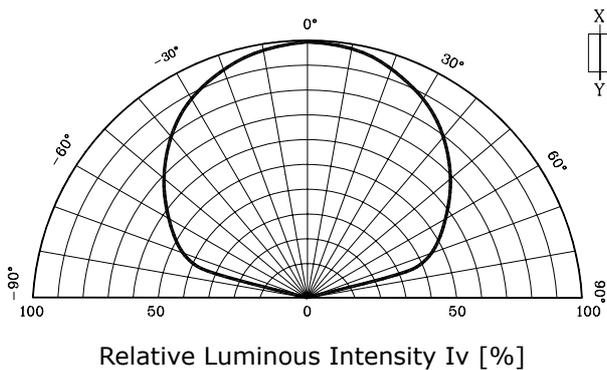
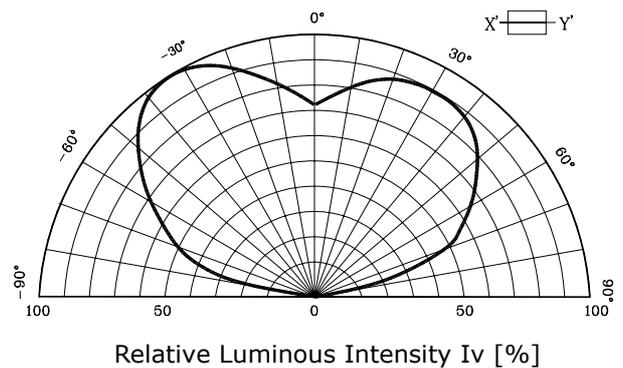


Fig. 5-2 Radiation Diagram(Y)



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