

1. Features

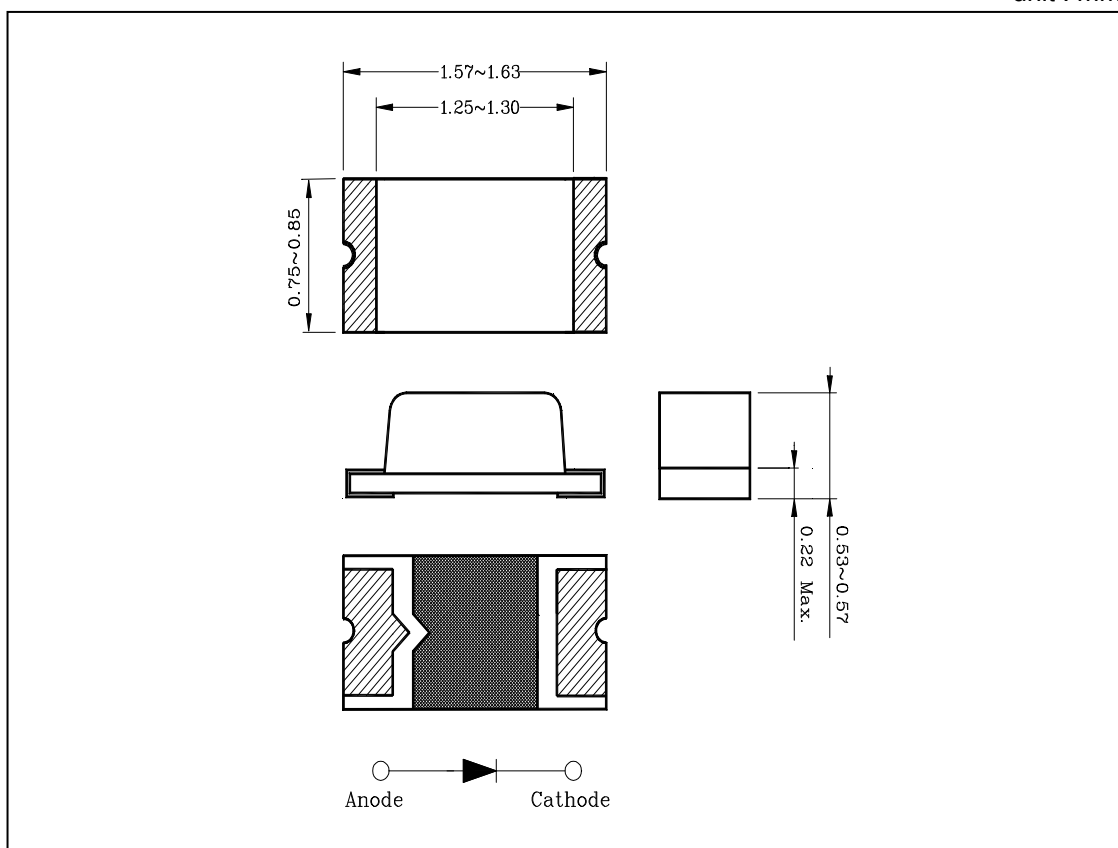
- ◆ 1.6mm(L)×0.8mm small size surface mount type
- ◆ Thin package of 0.55mm(H) thickness
- ◆ Transparent clear lens optic
- ◆ Low power consumption type chip LED

2. Applications

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

3. Outline Dimensions

unit : mm



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When using this product, would you please refer to the latest specifications.

4. Absolute Maximum Ratings

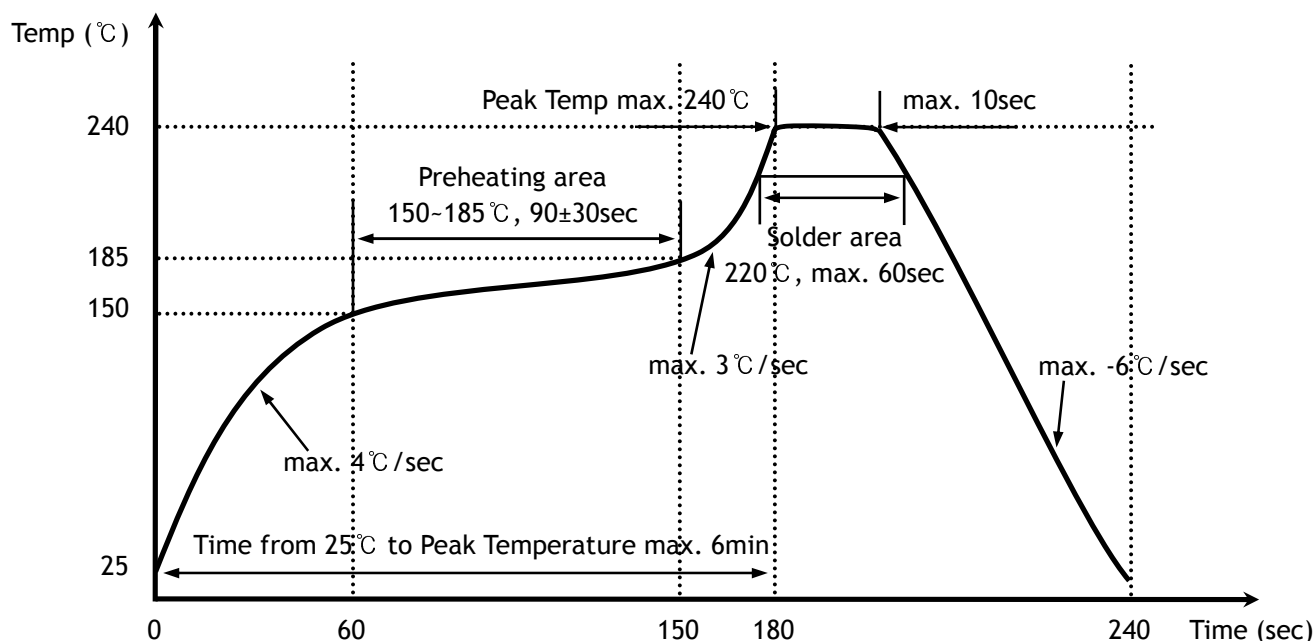
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	63	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)



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5. Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit	
Forward voltage	V _F	I _F = 10mA	-	2.1	2.5	V	
		I _F = 20mA	-	2.2	2.5	V	
*3 Luminous intensity	I _V	I _F = 10mA	-	1.3	-	mcd	
		I _F = 20mA	-	3	-	mcd	
Peak wavelength	λ _P	I _F = 20mA	-	557	-	nm	
Spectrum bandwidth	Δλ	I _F = 20mA	-	30	-	nm	
Reverse current	I _R	V _R =4V	-	-	10	uA	
*4 Half angle	θ/2	I _F = 20mA	X	-	±65	-	deg
			Y	-	±70	-	

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

*3.The test result of I_F=20mA is only for reference

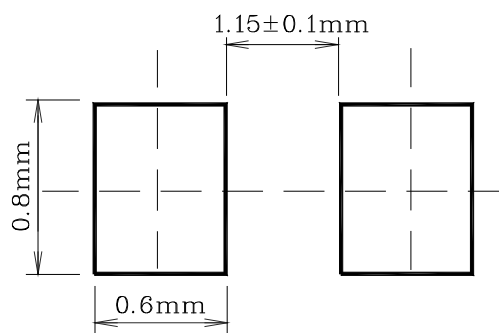
*3.Luminous Intensity Classification (Test Condition : I_F=10mA)

A	B	C	D
0.6~1.0	1.0~1.6	1.6~2.6	2.6~4.1

(Each I_V range did not consider a margin. Please refer to ±18% of I_V 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 $I_F - V_F$

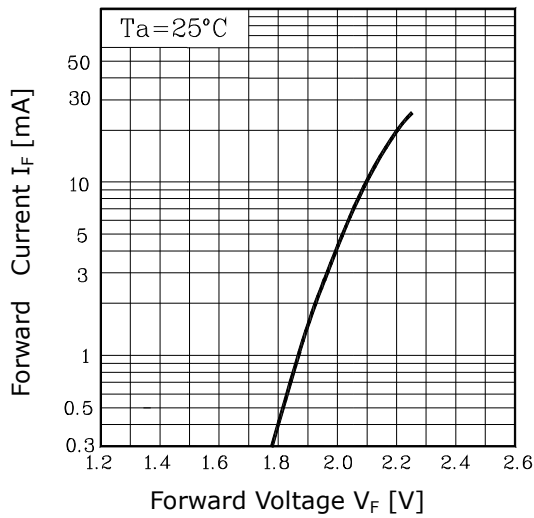


Fig. 2 $I_V - I_F$

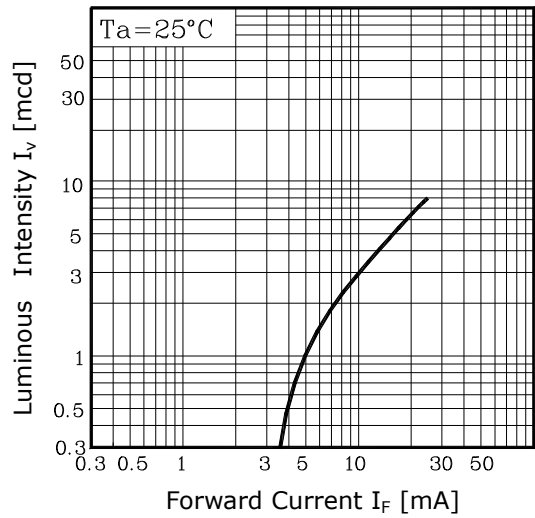


Fig. 3 $I_F - T_a$

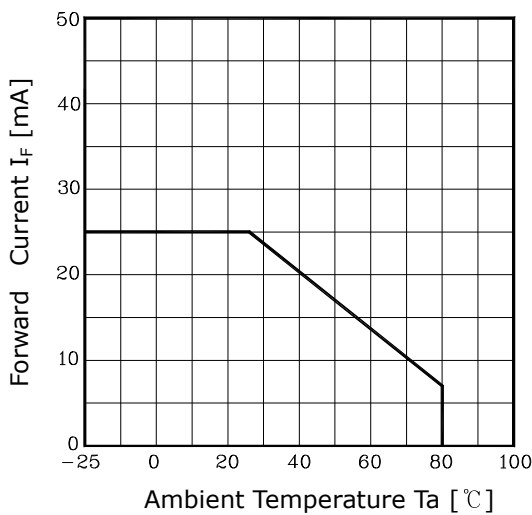


Fig.4 Spectrum Distribution

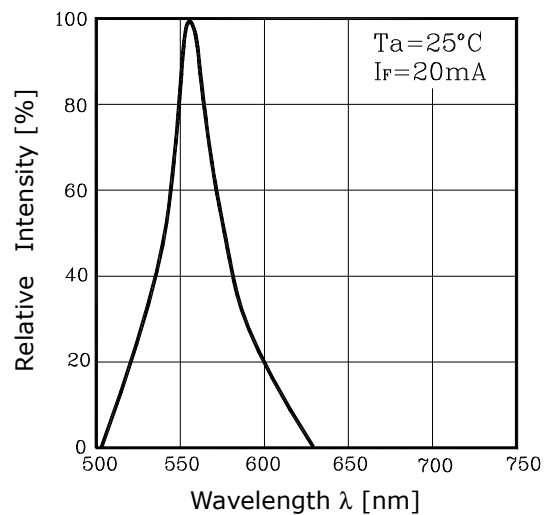


Fig. 5-1 Radiation Diagram(X)

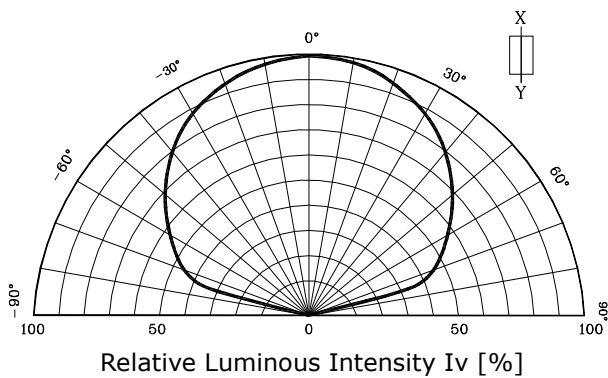
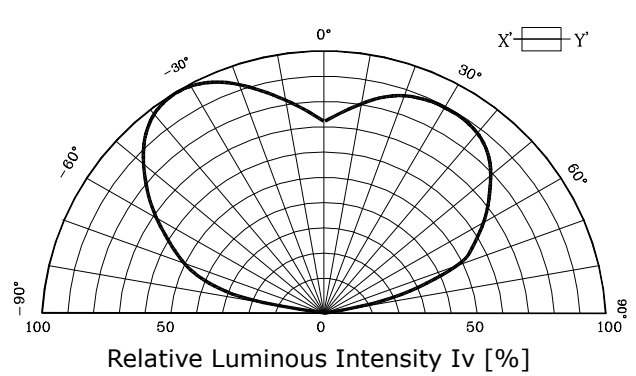


Fig. 5-2 Radiation Diagram(Y)



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