

1. Features

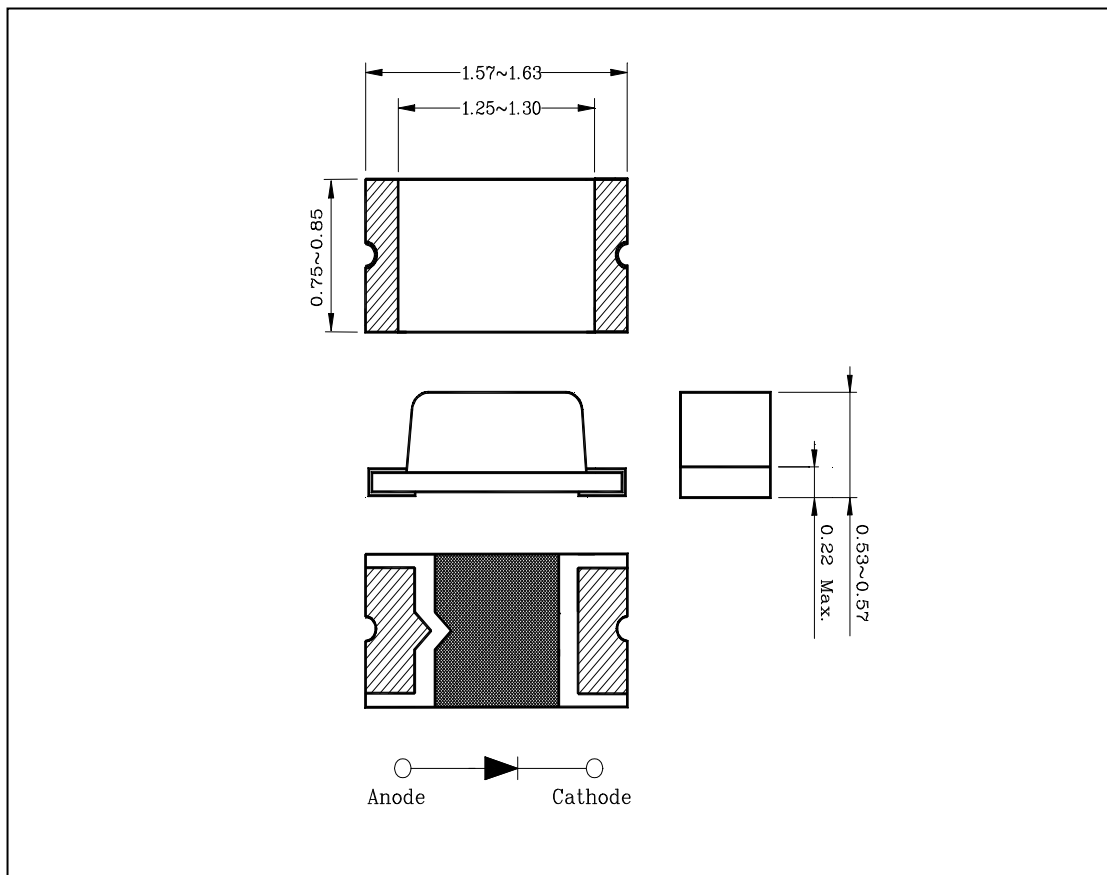
- ◆ 1.6mm(L)×0.8mm small size surface mount type
- ◆ Thin package of 0.55mm(H) thickness
- ◆ Transparent clear lens optic
- ◆ Ultra luminosity

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

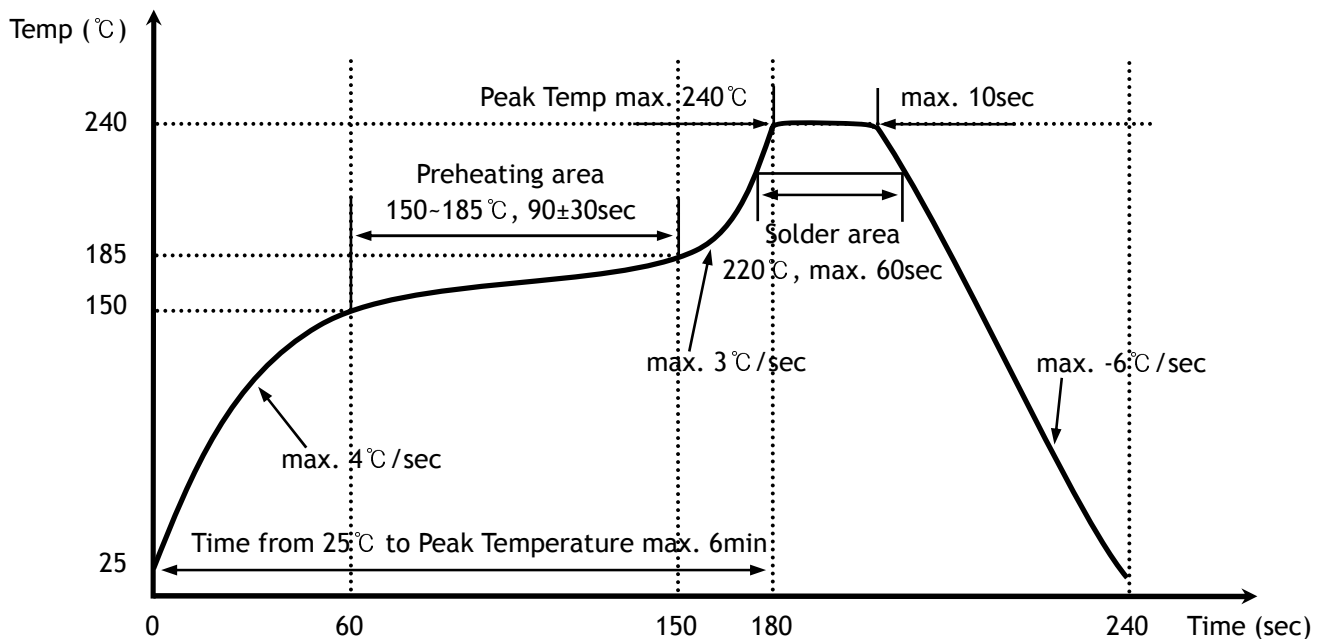
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	65	mW
Forward current	I_F	25	mA
*1 Peak forward current	I_{FP}	50	mA
Reverse voltage	V_R	10	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 / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=10\text{mA}$	-	1.9	2.3	V
*3 Luminous intensity	I_V	$I_F=10\text{mA}$	27	-	100	mcd
Peak wavelength	λ_P	$I_F=10\text{mA}$	-	640	-	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F=10\text{mA}$	-	20	-	nm
Reverse current	I_R	$V_R=10\text{V}$	-	-	10	μA
*4 Half angle	$\theta/2$	X	-	± 65	-	deg
		Y	-	± 70	-	

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

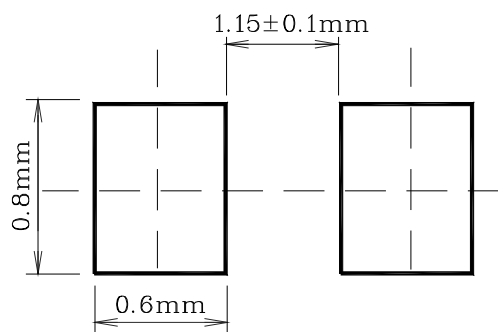
*3. The test result of $I_F=10\text{mA}$ is only for reference

*3. Luminous Intensity Classification

I	J	K
27~43	43~68	68~100

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

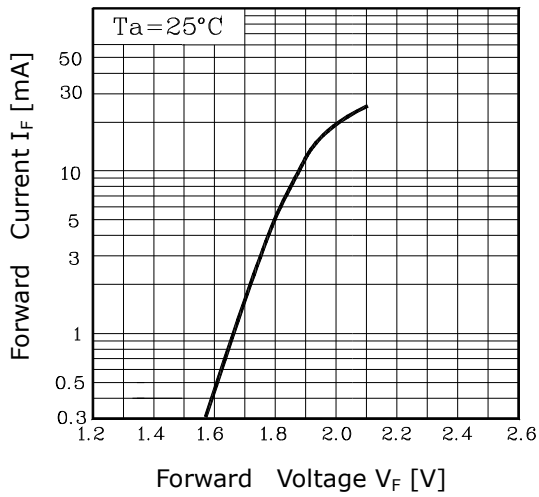


Fig. 2 $I_V - I_F$

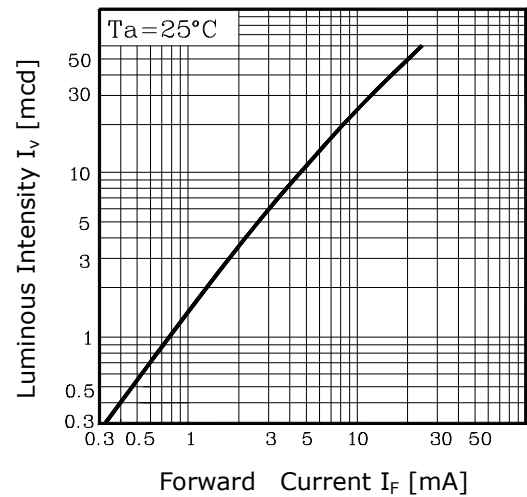


Fig. 3 $I_F - T_a$

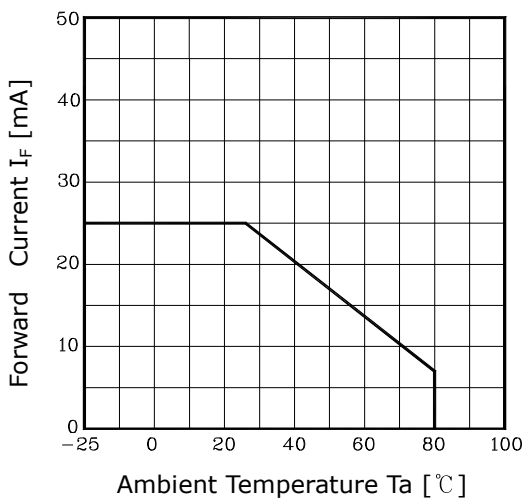


Fig.4 Spectrum Distribution

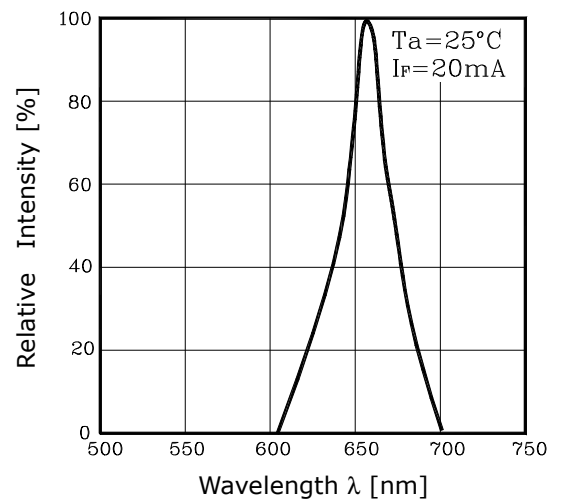


Fig. 5-1 Radiation Diagram(X)

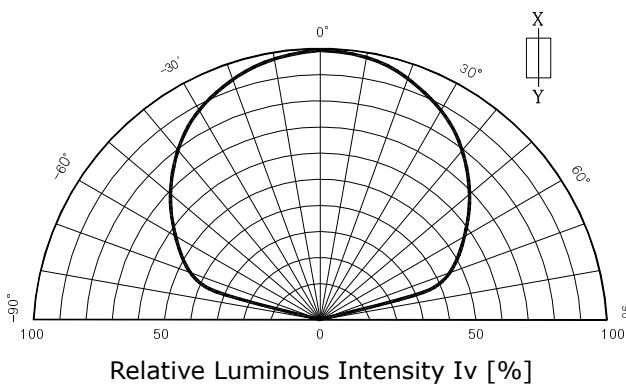
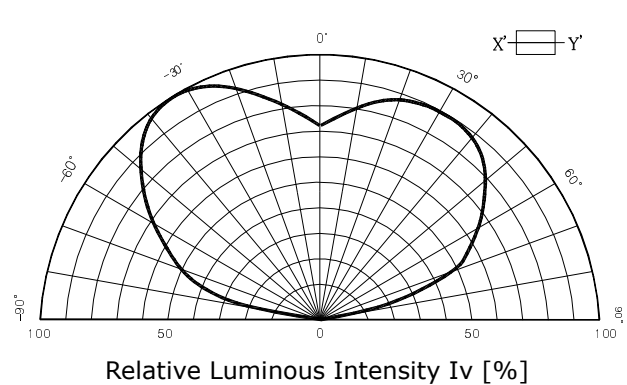


Fig. 5-2 Radiation Diagram(Y)



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