

### 1. Features

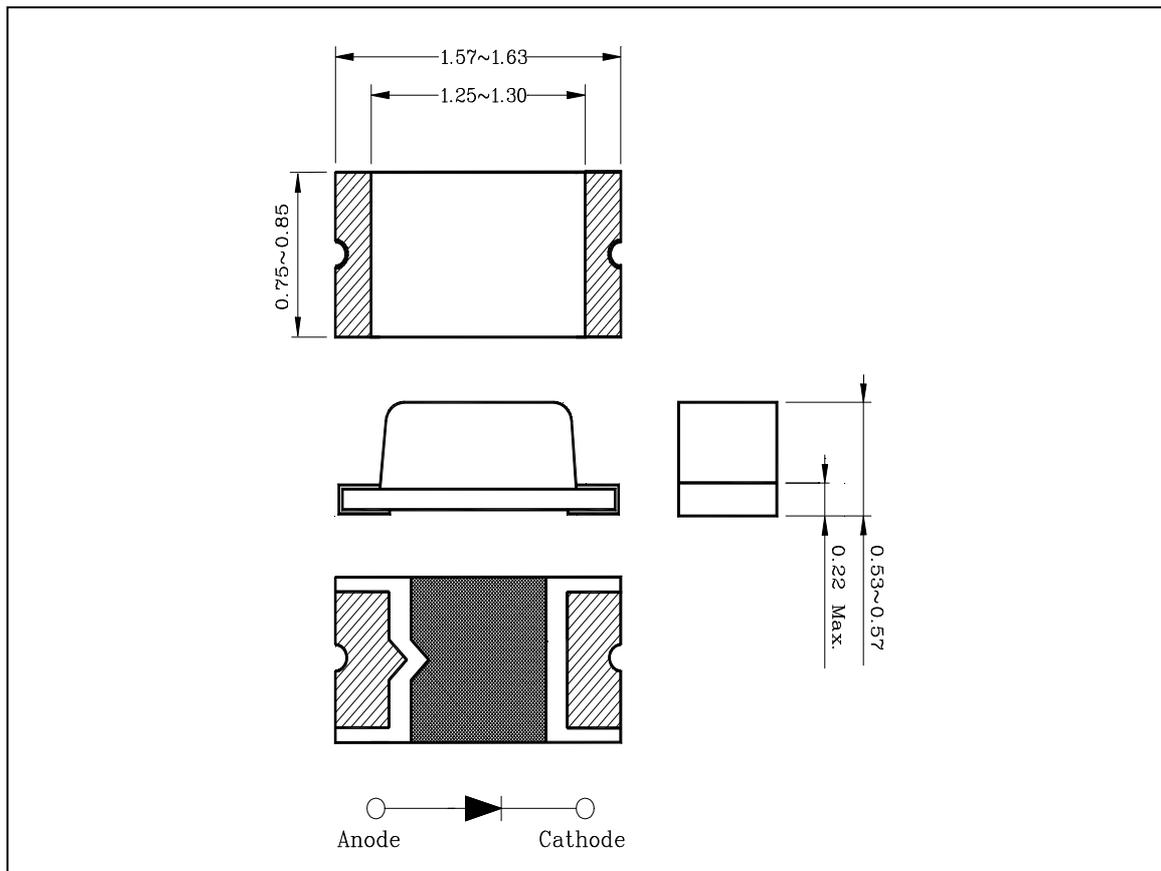
- ◆ 1.6mm(L)×0.8mm(W) small size surface mount type
- ◆ Thin package of 0.55mm(H) thickness
- ◆ Transparent clear lens optic
- ◆ Low power consumption type chip LED

### 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

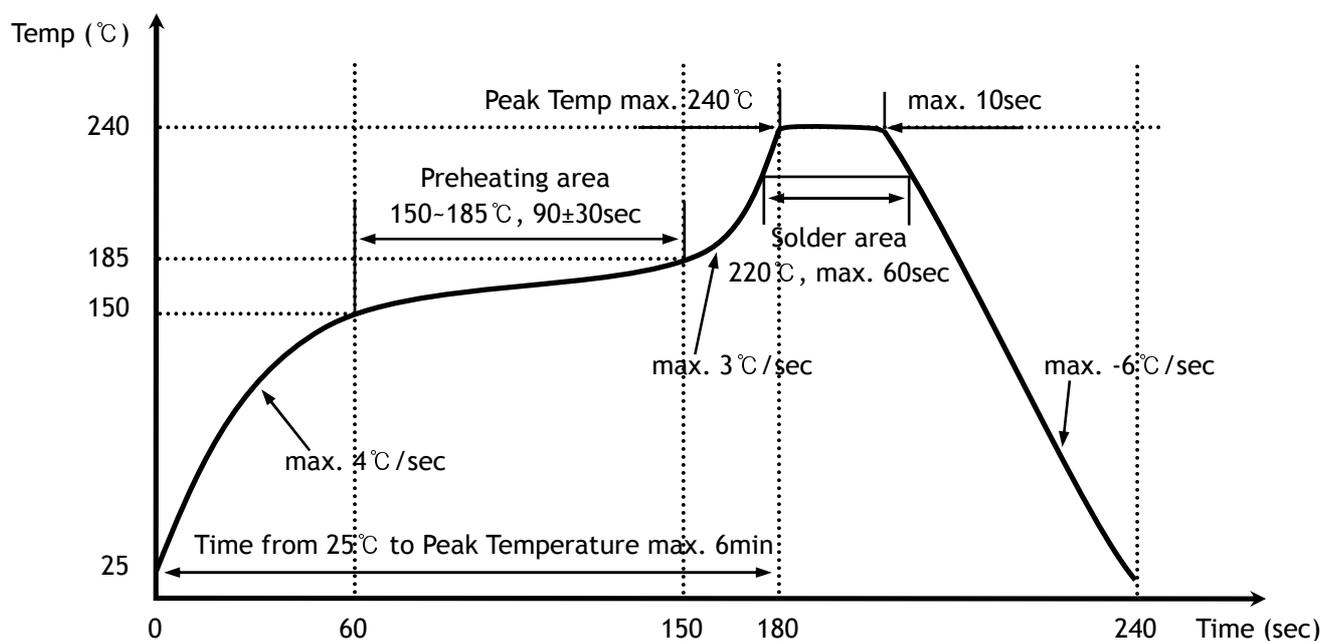
(Ta=25°C)

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 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	$V_F$	$I_F=10\text{mA}$	-	2.0	2.3	V
*3 Luminous intensity	$I_V$	$I_F=10\text{mA}$	1.6	-	6.6	mcd
Peak wavelength	$\lambda_P$	$I_F=10\text{mA}$	-	615	-	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F=10\text{mA}$	-	35	-	nm
Reverse current	$I_R$	$V_R=4\text{V}$	-	-	10	$\mu\text{A}$
*4 Half angle	$\theta/2$	X	-	$\pm 65$	-	deg
		Y	-	$\pm 70$	-	

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

\*3.Luminous Intensity Classification

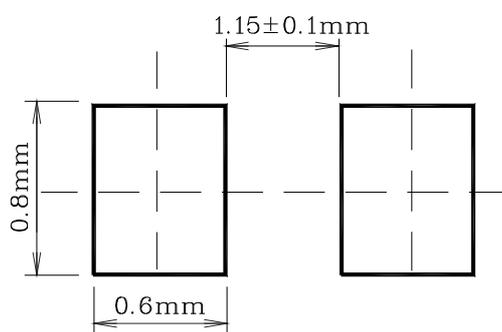
C	D	E
1.6~2.6	2.6~4.1	4.1~6.6

(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)

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

\* Recommended Soldering Land Pattern



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6. Characteristic Diagrams

Fig. 1  $I_F - V_F$

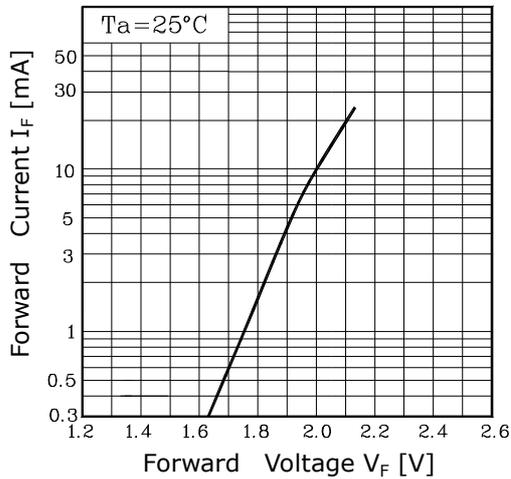


Fig. 2  $I_V - I_F$

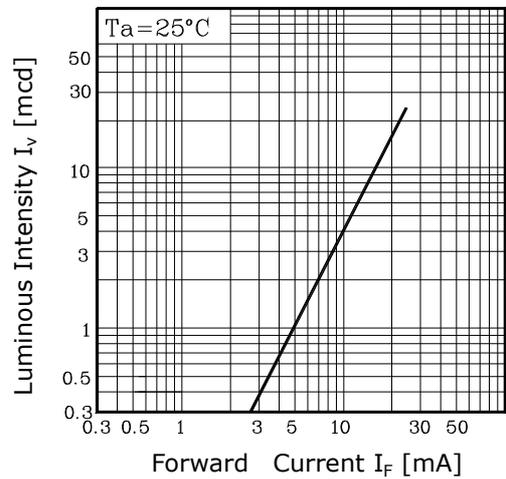


Fig. 3  $I_F - T_a$

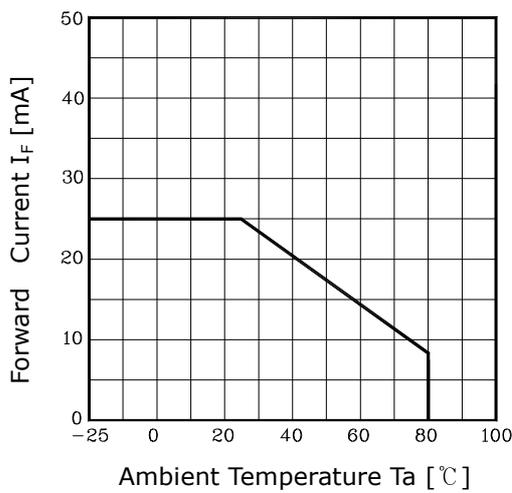


Fig.4 Spectrum Distribution

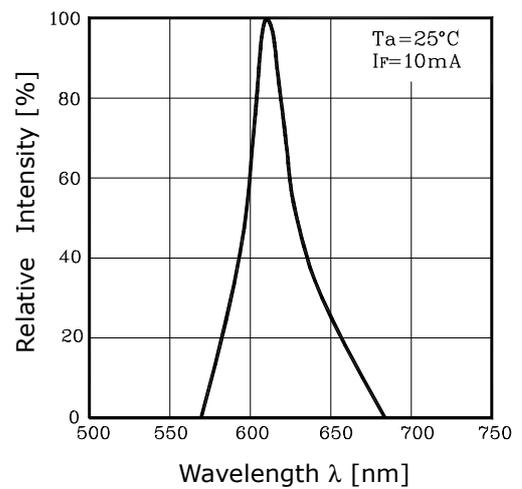


Fig. 5-1 Radiation Diagram(X)

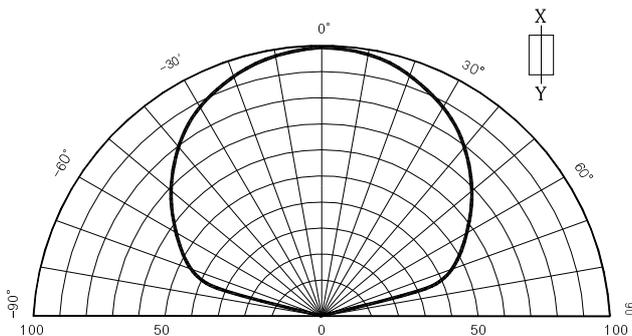
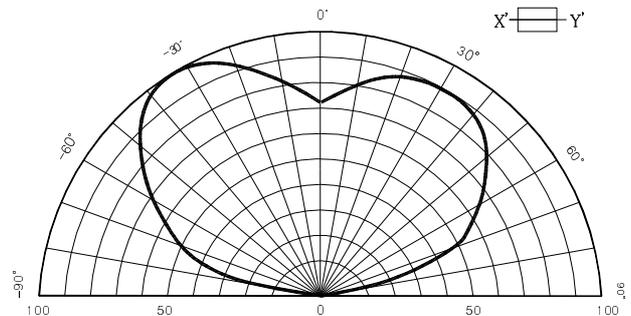


Fig. 5-2 Radiation Diagram(Y)



Relative Luminous Intensity  $I_v$  [%]

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