#### 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

1.57~1.63

1.25~1.30

0.53~0.57

Anode

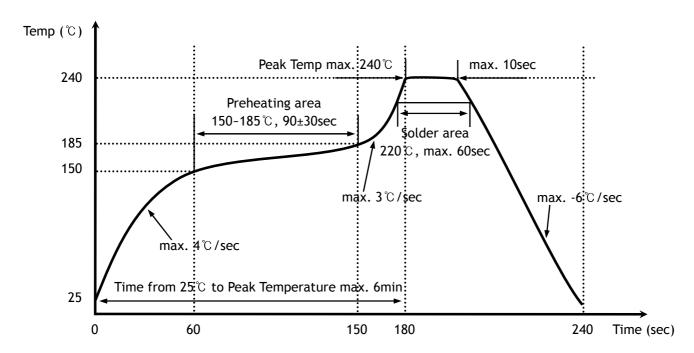
Cathode

### 4. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit	
Power dissipation	$P_{D}$	63	mW	
Forward current	${ m I}_{\sf F}$	25	mA	
*1 Peak forward current	${ m I}_{\sf FP}$	50	mA	
Reverse voltage	$V_R$	4	V	
Operating temperature range	$T_{opr}$	<b>-</b> 25∼80	$^{\circ}$	
Storage temperature range	T <sub>stg</sub>	-30~100	$^{\circ}$	
*2 Soldering temperature	T <sub>sol</sub>	240℃ for 10 seconds		

<sup>\*1.</sup>Duty ratio = 1/16, Pulse width = 0.1ms



<sup>\*2.</sup>Recommended reflow soldering temperature profile

#### 5. Electrical Characteristics

 $(Ta=25^{\circ}C)$ 

Characteristic	Symbo	ol	Test Condition	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>		I <sub>F</sub> = 10mA	ı	2.1	2.5	V
			I <sub>F</sub> = 20mA	1	2.2	2.5	V
*3 Luminous intensity	I <sub>V</sub>		I <sub>F</sub> = 10mA	ı	1.3	ı	mcd
			I <sub>F</sub> = 20mA	1	3	ı	mcd
Peak wavelength	$\lambda_{P}$		I <sub>F</sub> = 20mA	ı	557	ı	nm
Spectrum bandwidth	$\Delta_{\lambda}$		I <sub>F</sub> = 20mA	ı	30	ı	nm
Reverse current	$I_{R}$		V <sub>R</sub> =4V	ı	ı	10	uA
*4 Half angle		Χ	I <sub>F</sub> = 20mA		±65	ı	deg
	θ/2 Y	Υ		-	±70	-	

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

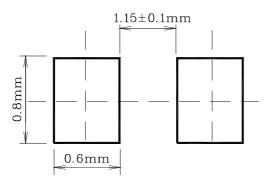
<sup>\*3.</sup>Luminous Intensity Classification (Test Condition :  $I_F=10mA$ )

Α	В	С	D
0.6~1.0	1.0~1.6	1.6~2.6	2.6~4.1

(Each  $I_{\text{V}}$  range did not consider a margin. Please refer to  $\pm 18\%$  of  $I_{\text{V}}$  range as a permitted limit and do not use to combine grade classification.

It must be used separately grade classification)

# \* Recommended Soldering Land Pattern



<sup>\*3.</sup> The test result of  $I_F$ =20mA is only for reference

#### 6. Characteristic Diagrams

Fig. 1  $I_{\text{F}}$  -  $V_{\text{F}}$ 

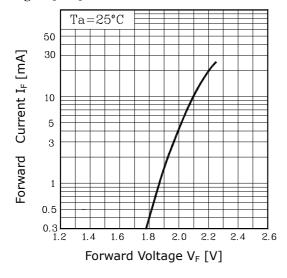


Fig. 3  $I_F$  – Ta

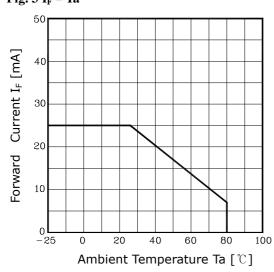


Fig. 5-1 Radiation Diagram(X)

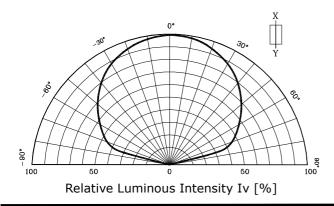
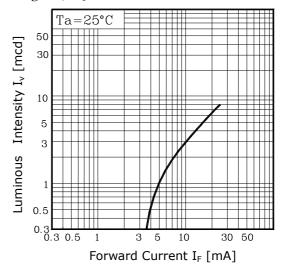


Fig. 2  $I_V$  -  $I_F$ 



**Fig.4 Spectrum Distribution** 

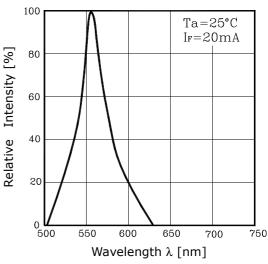


Fig. 5-2 Radiation Diagram(Y)

