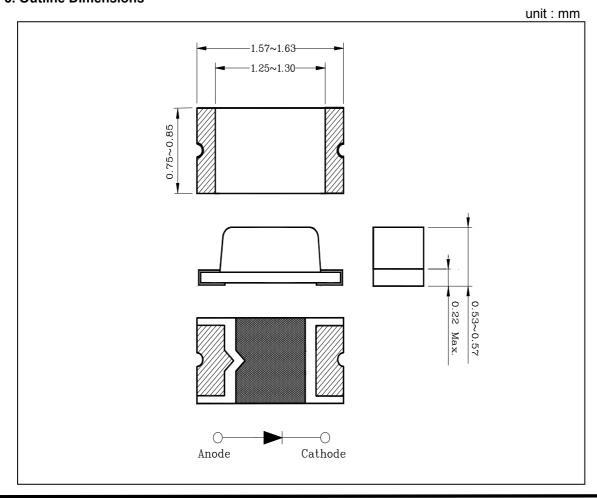
#### 1. Features

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

## 2. Applications

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

#### 3. Outline Dimensions



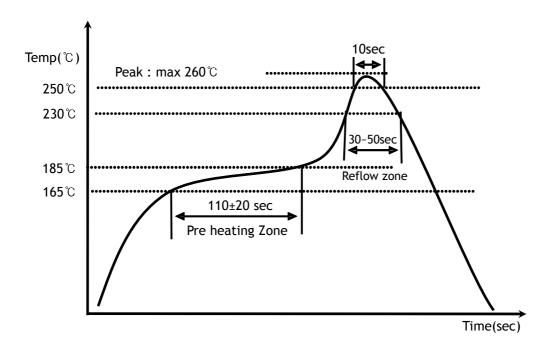
## 4. Absolute Maximum Ratings

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

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	$T_{opr}$	-25~80	°C	
Storage temperature range	$T_{stg}$	-30~100	°C	
*2 Soldering temperature	T <sub>sol</sub>	260℃ for 10 seconds		

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

- Preheating 150  $^\circ$  to 185  $^\circ$  within 120 seconds soldering 260  $^\circ$  within 10 seconds Gradual cooling (Avoid quenching)



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

## 5. Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Syn	nbol	Test Condition	Min.	Тур.	Max.	Unit		
Forward voltage	$V_{F}$		V <sub>F</sub>		I <sub>F</sub> = 20mA	-	2.0	2.5	>
*3 Luminous intensity	I <sub>V</sub>		Luminous intensity $I_V$ $I_F$ = 20mA		-	18	-	mcd	
Peak wavelength	$\lambda_{P}$		I <sub>F</sub> = 20mA	-	660	ı	nm		
Spectrum bandwidth	Δλ		I <sub>F</sub> = 20mA	-	20	1	nm		
Reverse current	$I_R$		V <sub>R</sub> =4V	-	-	10	uA		
*4 Half angle	θ1/2	Х	I <sub>F</sub> = 20mA	-	±65	-	deg		
		Υ		-	±70	-			

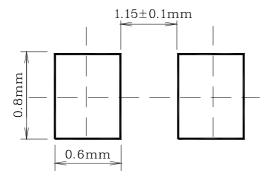
<sup>\*3.</sup> The test result of  $I_F$ =20mA is only for reference

# ◆ Luminous intensity Classification(I<sub>F</sub>=20mA)

F	G	Н	I
4.1~8.0	8.0~15.0	15.0~27.0	27.0~46.0

(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



<sup>\*</sup>4.01/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

#### 6. Characteristic Diagrams

Fig. 1  $I_F$  -  $V_F$ 

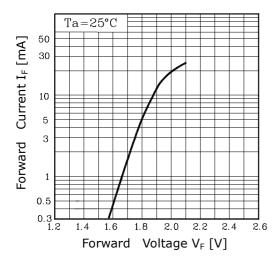


Fig. 3  $I_F$  – Ta

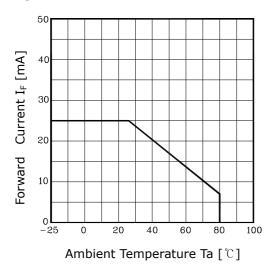


Fig. 5-1 Radiation Diagram

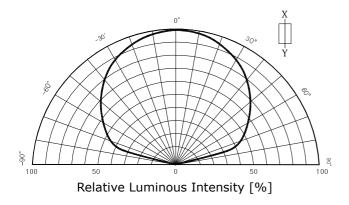


Fig. 2  $I_V$  -  $I_F$ 

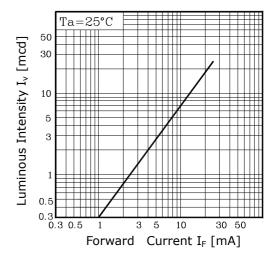


Fig.4 Spectrum Distribution

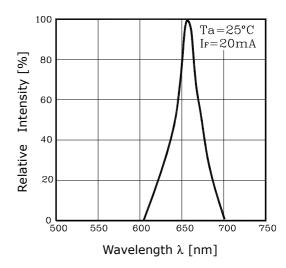


Fig. 5-2 Radiation Diagram

