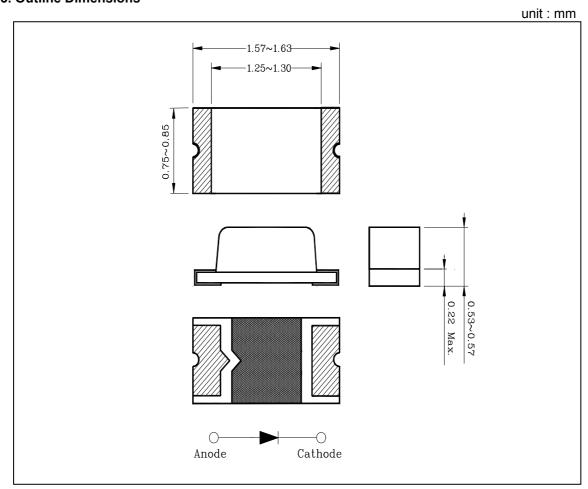
1. Features

- ◆ 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



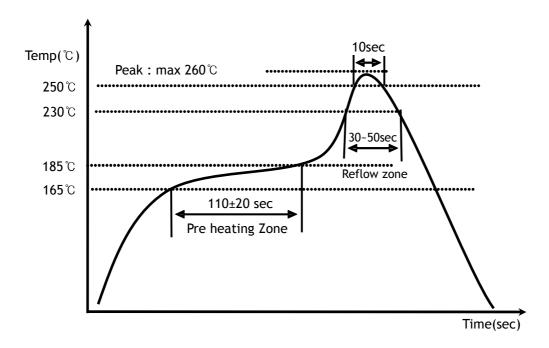
4. Absolute Maximum Ratings

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

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 _{sol}	260° for 10 seconds		

^{*1.}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)



^{*2.}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 _F I _F = 20mA		2.0	2.5	٧
*3 Luminous intensity	I _V		I _F = 20mA	-	18	-	mcd
Peak wavelength	λ_{P}		I _F = 20mA	-	660	-	nm
Spectrum bandwidth	Δλ		I _F = 20mA	-	20	-	nm
Reverse current	I_R		V _R =4V	-	-	10	uA
*4 Half angle	θ1/2	Х	I _F = 20mA	-	±65	-	deg
		Υ		-	±70	-	

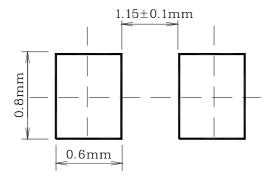
^{*3.} The test result of I_F =20mA is only for reference

◆ Luminous intensity Classification(I_F=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



^{*}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

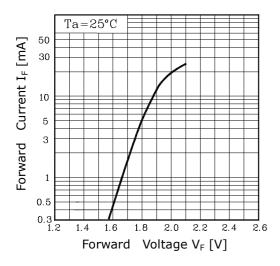


Fig. 3 I_F – Ta

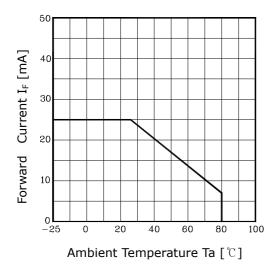


Fig. 5-1 Radiation Diagram

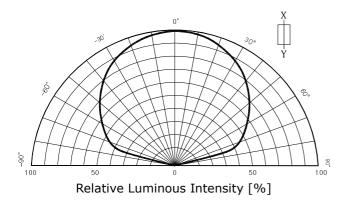


Fig. 2 I_V - I_F

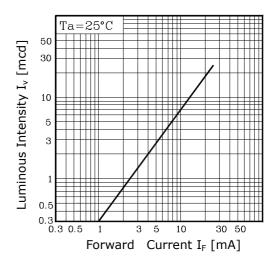


Fig.4 Spectrum Distribution

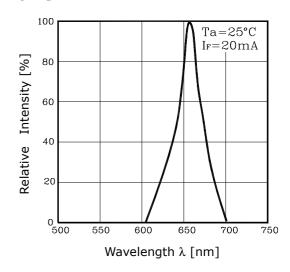


Fig. 5-2 Radiation Diagram

