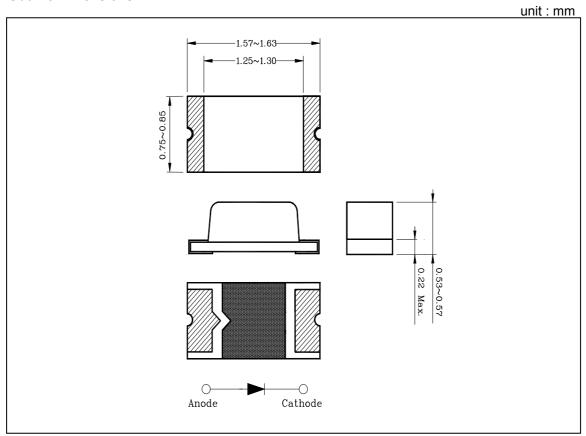
1. Features

- ◆ 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



4. Absolute Maximum Ratings

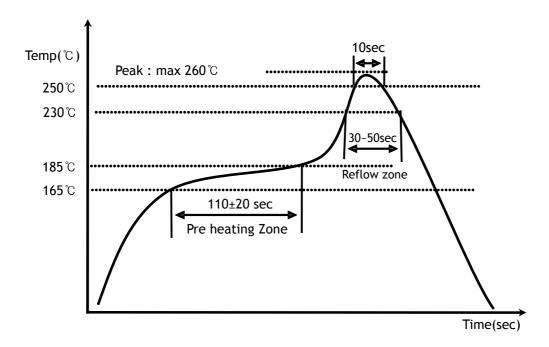
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 $(Ta=25^{\circ}C)$

Characteristic	Symbol	Rating	Unit	
Power dissipation	P_{D}	57	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°C for 10 seconds		

^{*1.} Duty ratio = 1/16, Pulse width = 0.1ms

- *2. Recommended reflow soldering temperature profile
 - Preheating $150\,^\circ$ to $185\,^\circ$ within 120 seconds soldering $260\,^\circ$ within 10 seconds Gradual cooling (Avoid quenching)



5. Electrical / Optical Characteristics

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

Characteristic	Symbol		Test Condition	Min	Тур	Max	Unit
Forward voltage	V _F		I _F = 10mA	-	2.0	2.3	V
*3 Luminous intensity	I _V		I _F = 10mA	2.6	-	10	mcd
Peak wavelength	λ_{P}		I _F = 10mA	-	630	-	nm
Spectrum bandwidth	Δ_{λ}		I _F = 10mA	-	35	-	nm
Reverse current	I_{R}		V _R =4V	-	-	10	uA
*4 Half angle	θ/2	Х	I _F = 10mA	-	±65	-	deg
		Υ		-	±70	-	

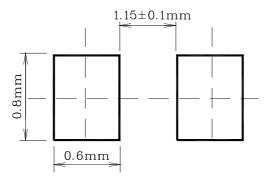
^{*3.} The test result of $I_F=10$ mA is only for reference

\bullet V_F / I_V Grade Classification (Ta=25 $^{\circ}$ C)

Test Condition @I _F = 10mA				
Forward Voltage [V _F]	Luminous Intensity [mcd]			
1:1.8~2.0	D: 2.6~4.1			
	E: 4.1~6.6			
2:2.0~2.2	F: 6.6~10.0			

(Each V_F , I_V range did not consider a margin. Please refer to $\pm 0.1 V$ of V_F range, $\pm 18\%$ 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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^{*} $4.\theta/2$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

6. Characteristic Diagrams

Fig. 1 $I_F - V_F$

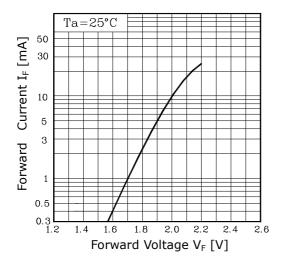


Fig. 3 I_F – Ta

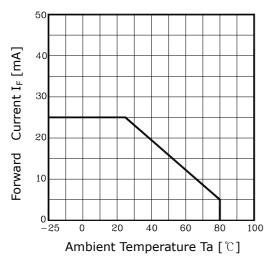
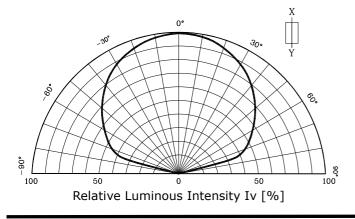


Fig. 5-1 Radiation Diagram(X)



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Fig. 2 I_V - I_F

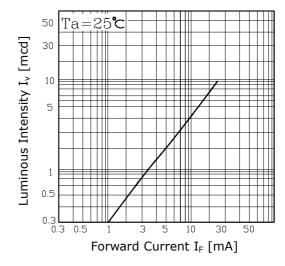


Fig.4 Spectrum Distribution

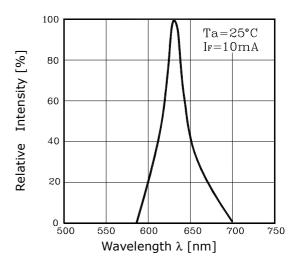


Fig. 5-2 Radiation Diagram(Y)

