

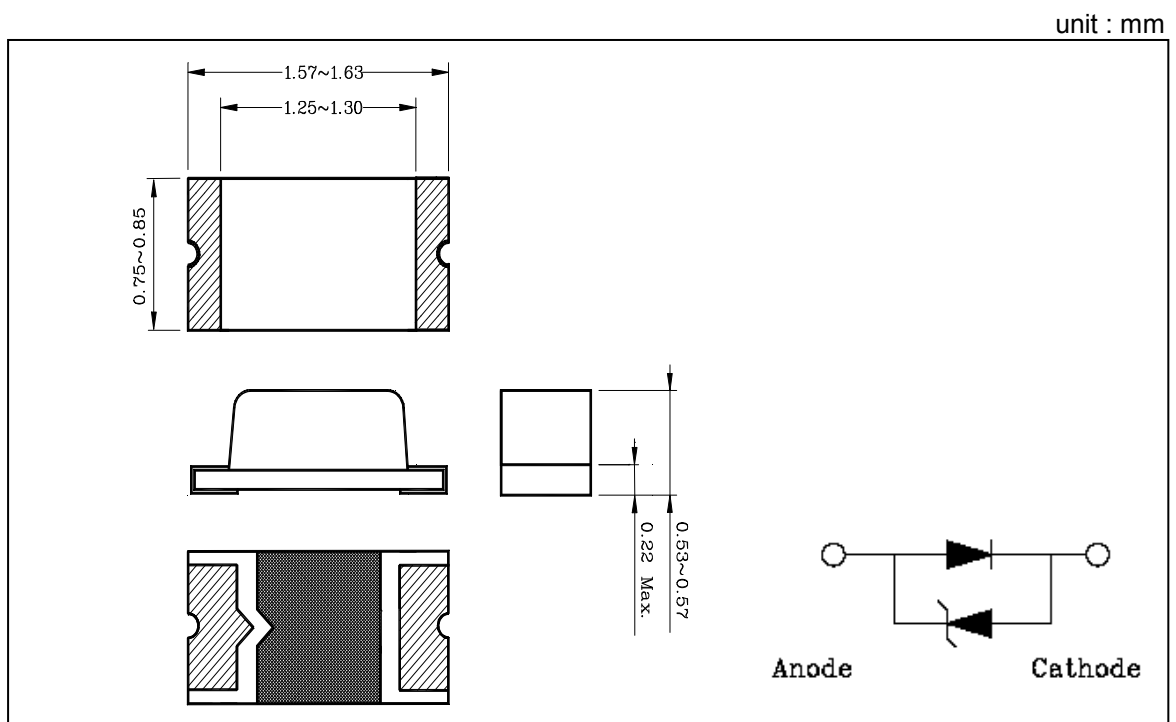
1. Features

- ◆ 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
- ◆ Emitting light green (530nm)
- ◆ E ; ESD Protected ($\pm 2.0\text{KV}$, 3 Times @100pF, 1.5K Ω)

2. Applications

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

3. Outline Dimensions



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)

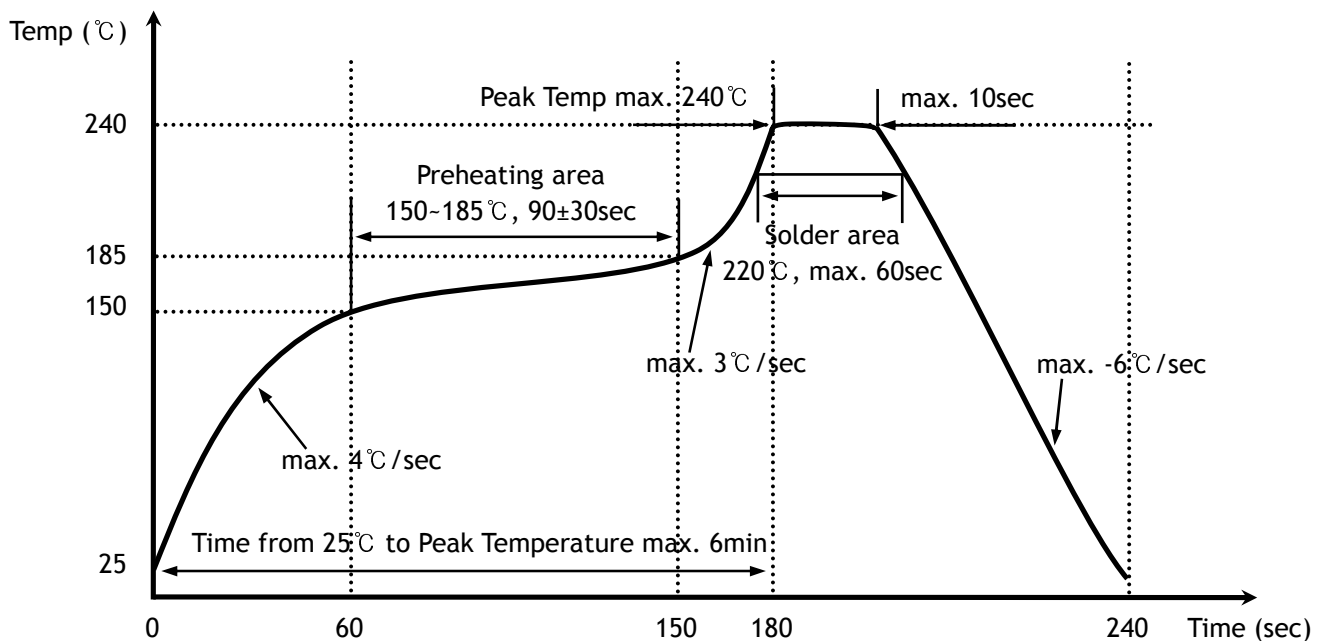
Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	64	mW
Forward current	I_F	20	mA
*1 Peak forward current	I_{FP}	50	mA
Operating temperature range	T_{opr}	-25 ~ 80	°C
Storage temperature range	T_{stg}	-30 ~ 100	°C
*2 Soldering temperature	T_{sol}	240°C for 10 seconds	

*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)



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.

5. Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 5\text{mA}$	2.6	-	3.2	V
*3 Luminous intensity	I_V	$I_F = 5\text{mA}$	33	-	95	mcd
Peak wavelength	λ_D	$I_F = 5\text{mA}$	530	-	545	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F = 5\text{mA}$	-	35	-	nm
*4 Half angle	$\theta/2$	X	-	± 65	-	deg
		Y	-	± 70	-	

*3.The test result of $I_F=5\text{mA}$ is only for reference

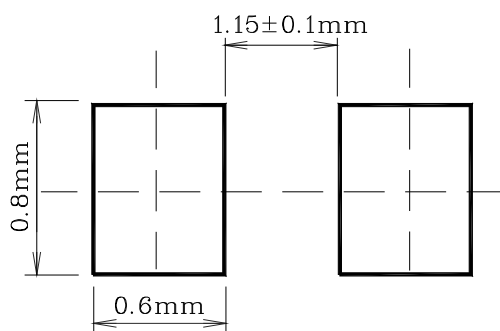
*4. $\theta/2$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

◆ $V_F / I_V / \lambda_P$ Grade Classification (Ta=25°C)

Test Condition @ $I_F = 5\text{mA}$		
Forward Voltage [V]	Luminous Intensity [mcd]	Dominant Wavelength [nm]
2 : 2.6~2.8	A : 33~43	d : 530 ~ 536
	B : 43~56	
3 : 2.8~3.0	C : 56~73	e1 : 536 ~ 540
		e2 : 540 ~ 545
4 : 3.0~3.2	D : 73~95	

(Each V_F , I_V , λ_D range did not consider a margin. Please refer to $\pm 0.1\text{V}$ of V_F range, $\pm 18\%$ of I_V range, $\pm 1\text{nm}$ of λ_D range as a permitted limit and do not use to combine grade classification. It must be used separately grade classification)

* Recommended Soldering Land Pattern



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.

6. Characteristic Diagrams

Fig. 1 $I_F - V_F$

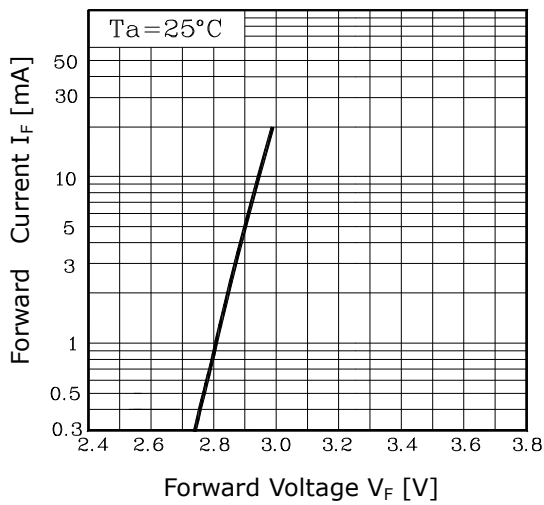


Fig. 2 $I_V - I_F$

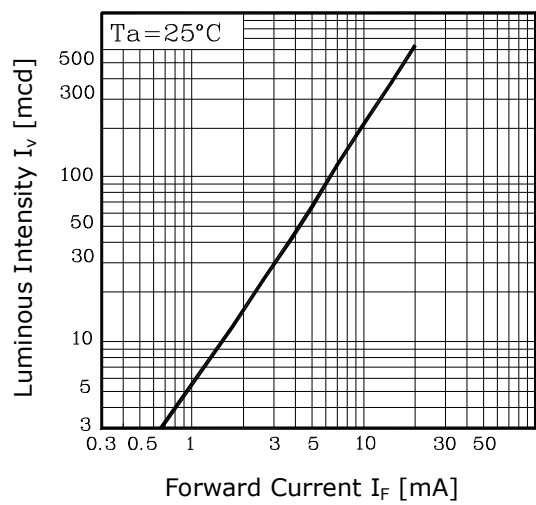


Fig. 3 $I_F - T_a$

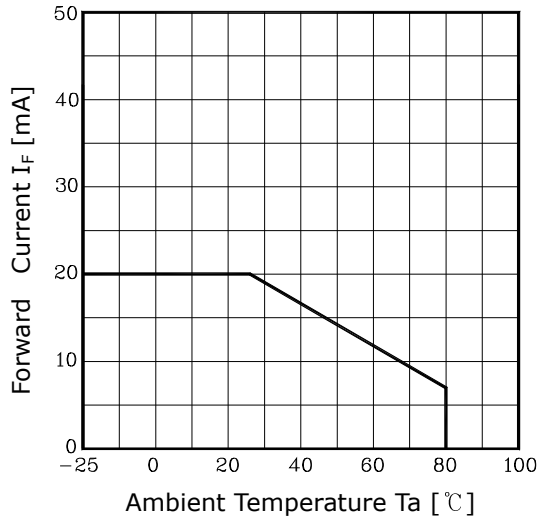


Fig. 4 Spectrum Distribution

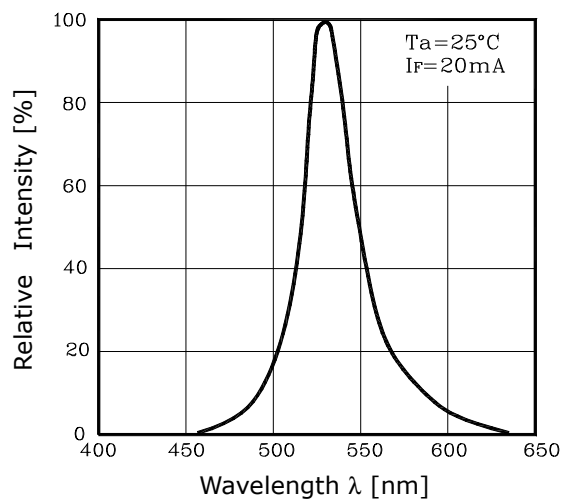


Fig. 5-1 Radiation Diagram(X)

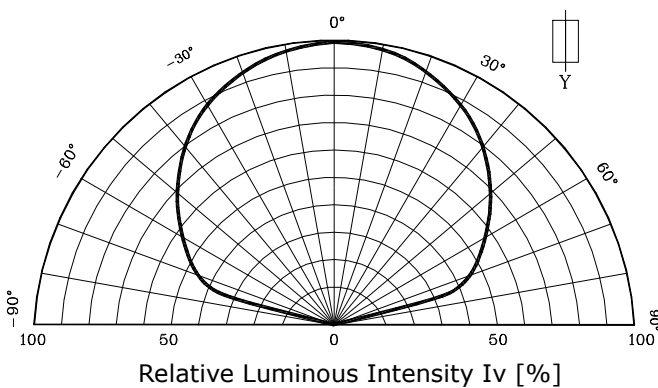
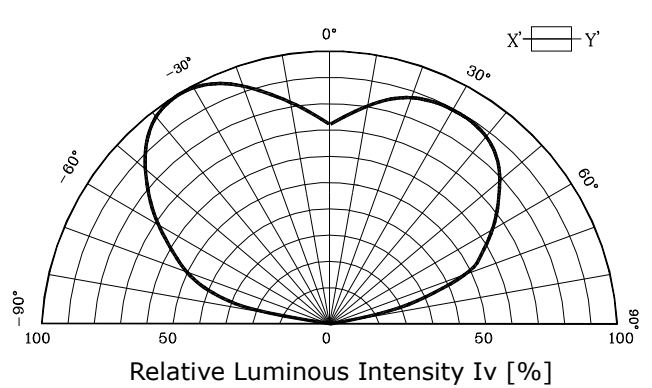


Fig. 5-2 Radiation Diagram(Y)



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.