

Features

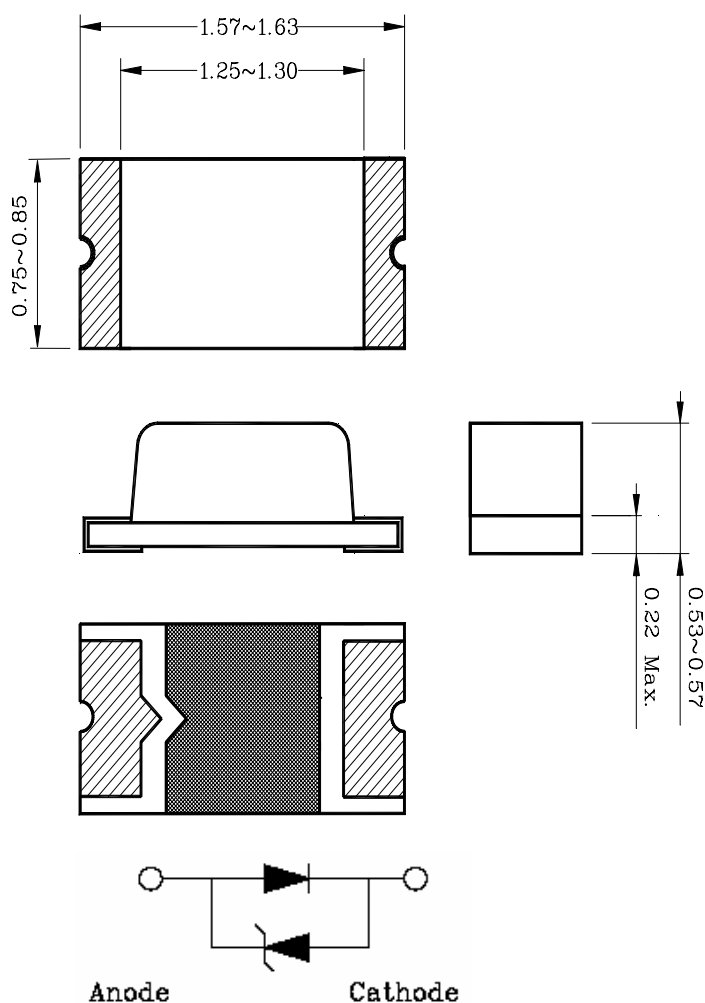
- 1.6mm(L)×0.8mm(W) small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- Low power consumption type chip LED
- Emitting light green (530nm)
- **E ; ESD Protected ($\pm 2.0\text{KV}$, 3 Times @100pF, 1.5K Ω)**

Applications

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

Outline Dimensions

unit : mm



Absolute Maximum Ratings

(Ta=25°C)

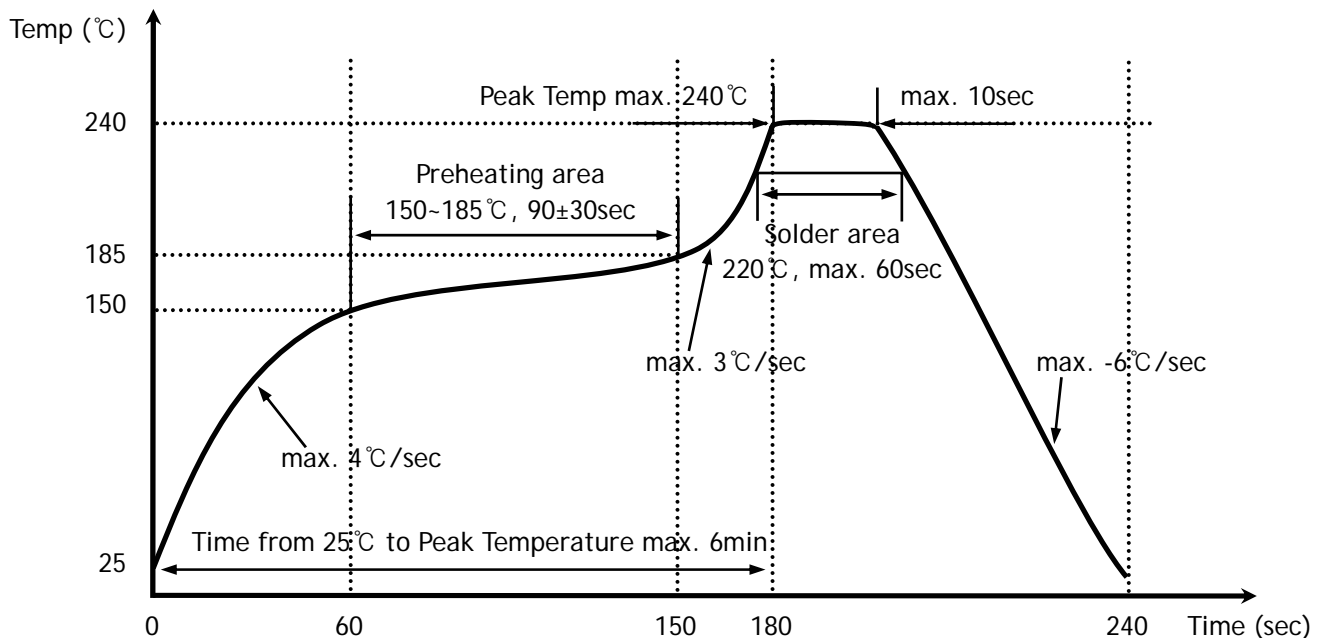
Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	64	mW
Forward current	I_F	20	mA
*1Peak forward current	I_{FP}	50	mA
Operating temperature range	T_{opr}	-25 ~ 80	°C
Storage temperature range	T_{stg}	-30 ~ 100	°C
*2Soldering temperature	T_{sol}	240°C for 10 seconds	

*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)



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
*4Luminous intensity	I_V	$I_F = 5\text{mA}$	33	-	95	mcd
Peak wavelength	λ_P	$I_F = 5\text{mA}$	524	-	536	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F = 5\text{mA}$	-	35	-	nm
*3Half angle	$\theta_{1/2}$	X	-	±65	-	deg
		Y	-	±70	-	

- *3. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity
- *4. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$
(The test result of $I_F=5\text{mA}$ is only for reference)

● $V_F / I_V / \lambda_P$ Grade Classification ($T_a=25^\circ\text{C}$)

Test Condition @ $I_F = 5\text{mA}$		
Forward Voltage [V]	Luminous Intensity [mcd]	Peak Wavelength [nm]
2 : 2.6~2.8	A : 33~43	c : 524~530
	B : 43~56	
3 : 2.8~3.0	C : 56~73	d : 530~536
4 : 3.0~3.2	D : 73~95	

(Do not use to combine grade classification. It must be used separately grade classification)

Characteristic Diagrams

Fig. 1 $I_F - V_F$

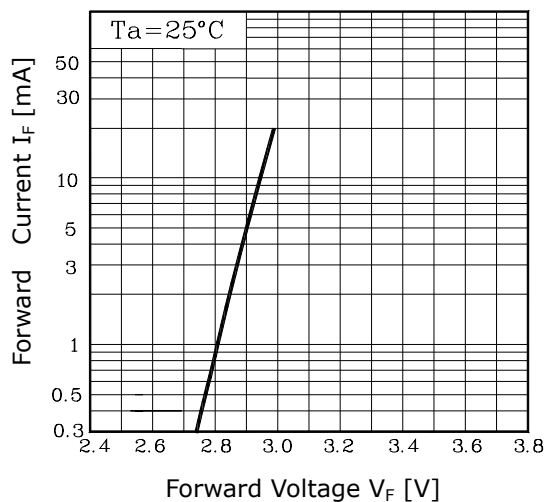


Fig. 2 $I_V - I_F$

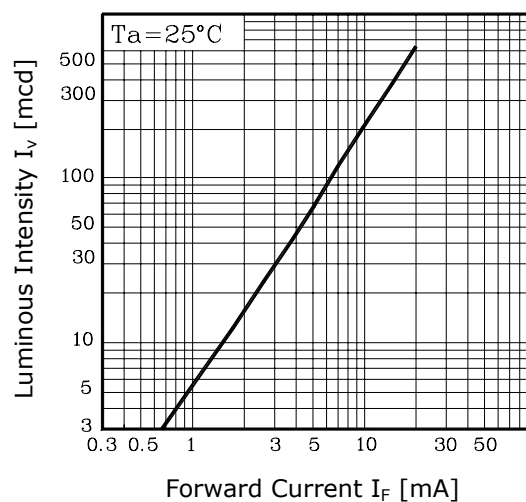


Fig. 3 $I_F - T_a$

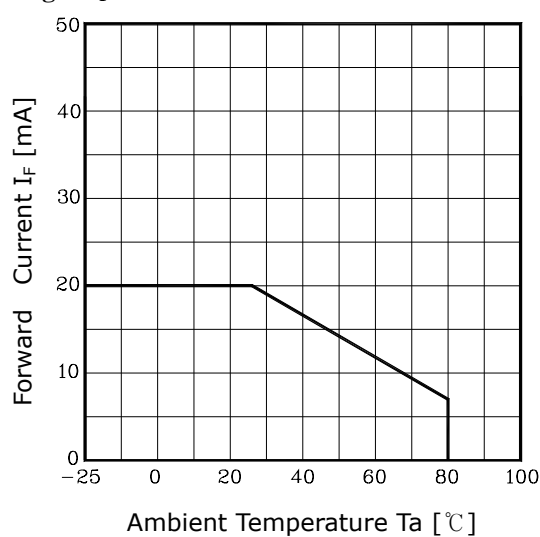


Fig.4 Spectrum Distribution

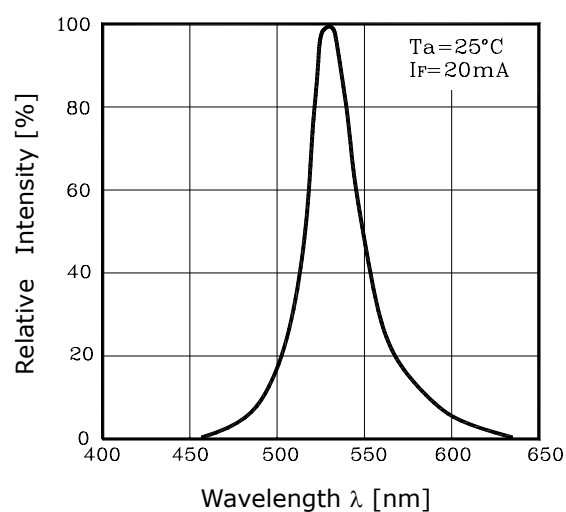


Fig. 5-1 Radiation Diagram(X)

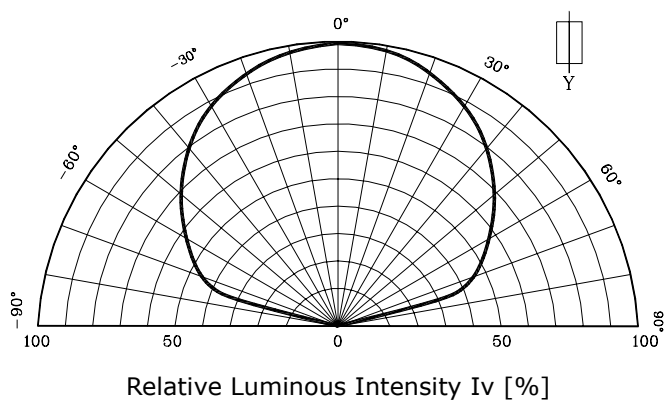
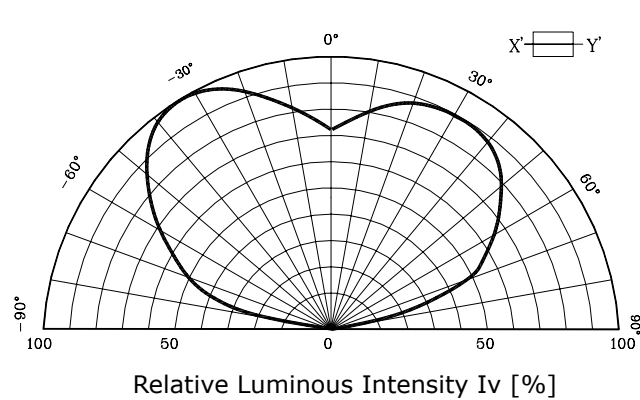


Fig. 5-2 Radiation Diagram(Y)



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