

Features

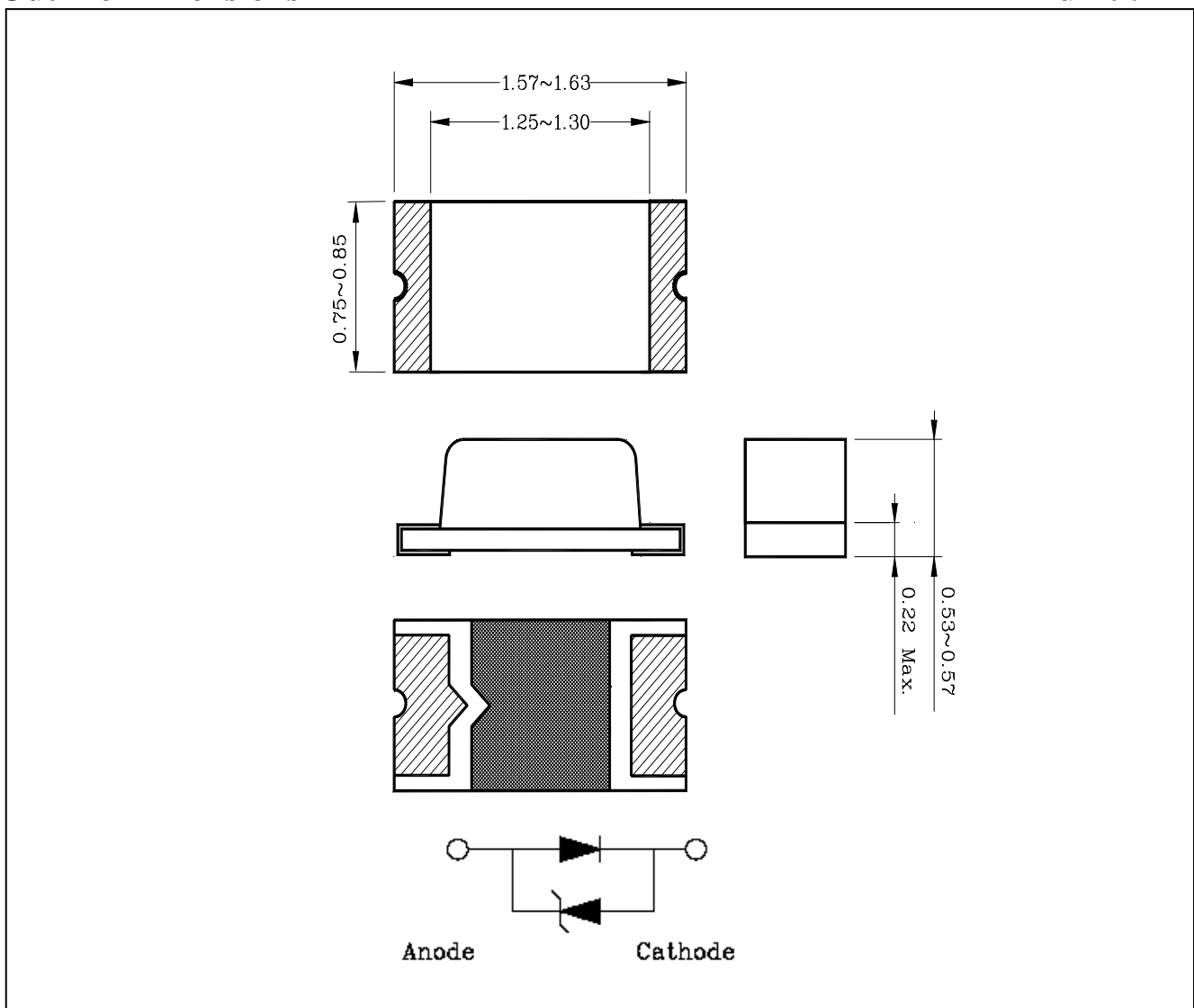
- 1.6mm(L)×0.8mm(W) small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- Low power consumption type chip LED
- Emitting light green (530nm)
- **E ; ESD Protected ($\pm 2.0KV$, 3 Times @100pF, 1.5K Ω)**

Applications

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

Outline Dimensions

unit : mm



Absolute Maximum Ratings

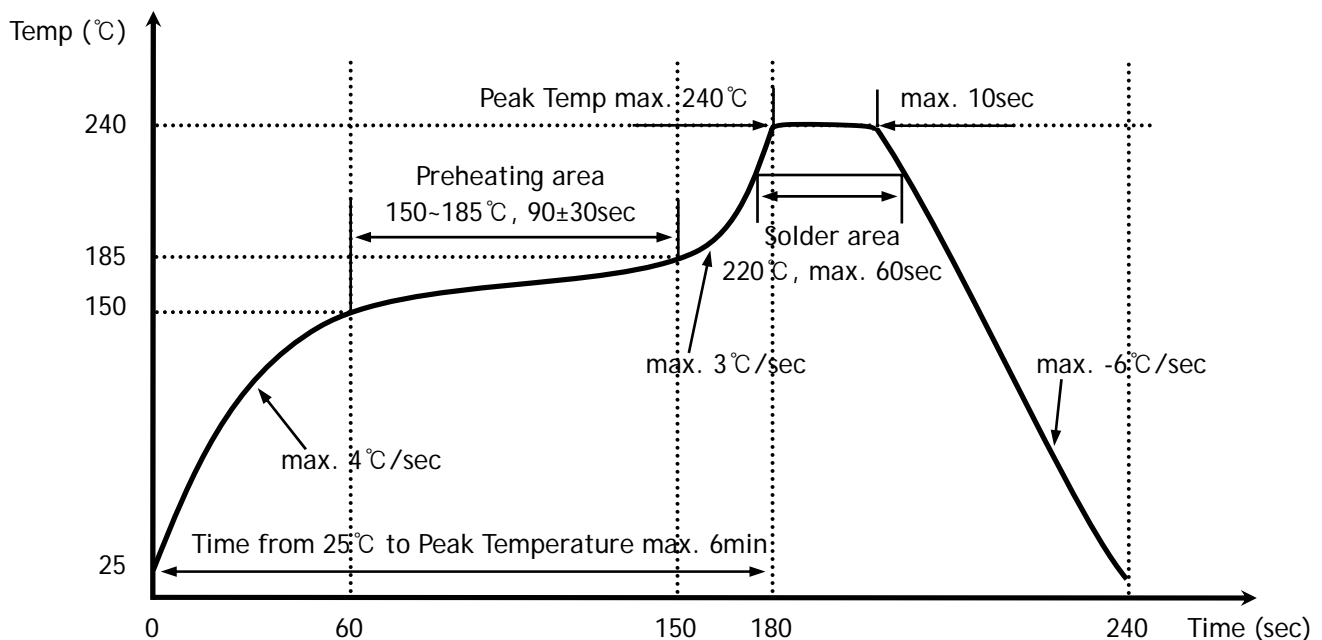
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	64	mW
Forward current	I_F	20	mA
*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)



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
*4 Luminous 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
*3 Half angle	$\theta_{1/2}$	$I_F = 5\text{mA}$	-	±65	-	deg
	X 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
	D : 73~95	
4 : 3.0~3.2		

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

Characteristic Diagrams

Fig. 1 $I_F - V_F$

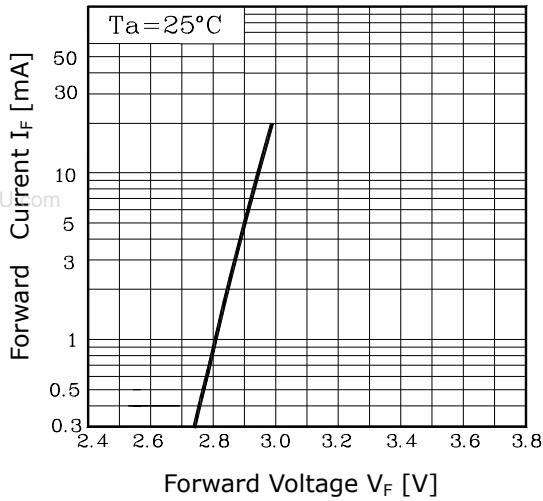


Fig. 2 $I_V - I_F$

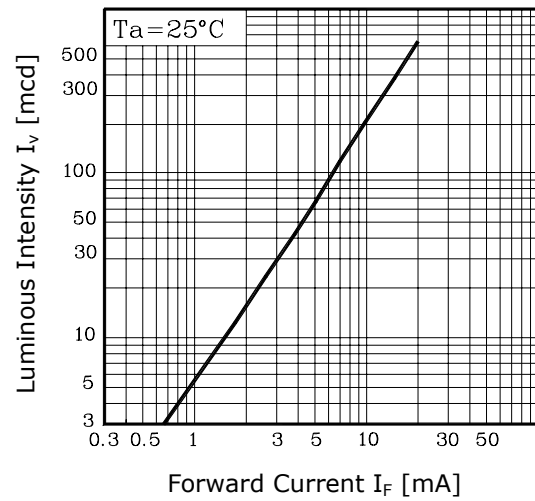


Fig. 3 $I_F - T_a$

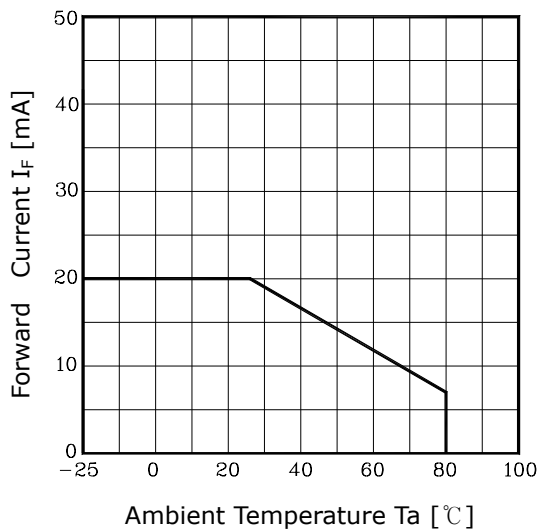


Fig. 4 Spectrum Distribution

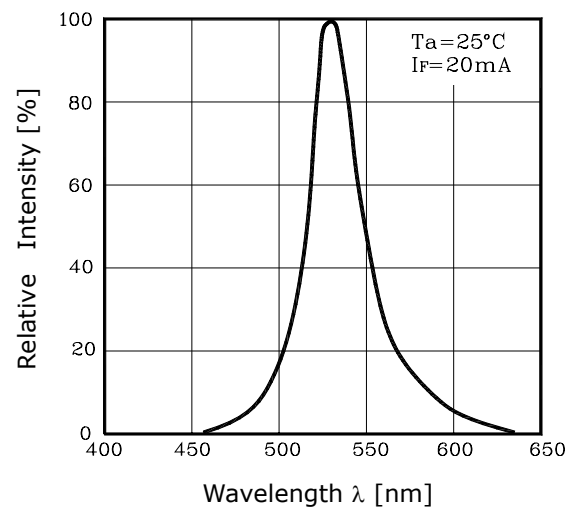


Fig. 5-1 Radiation Diagram(X)

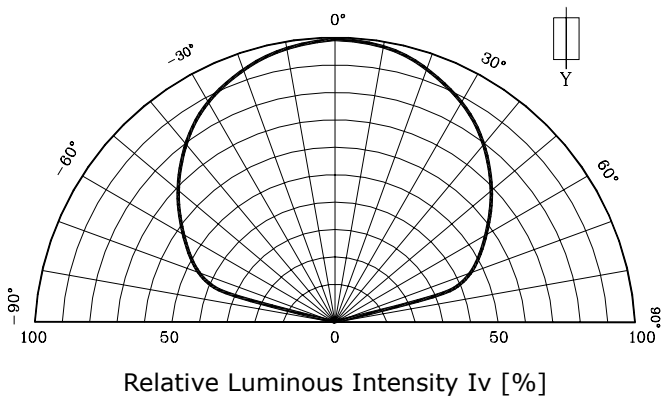
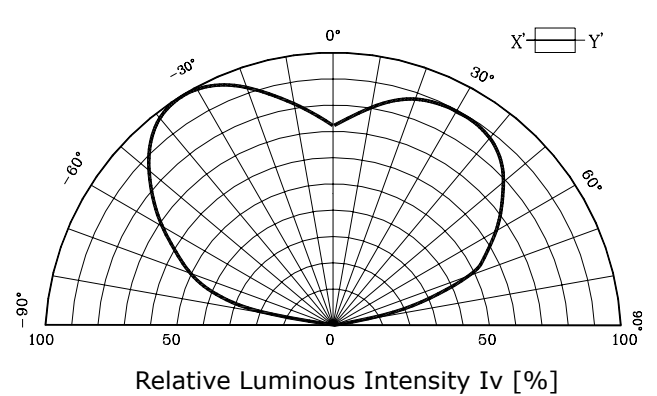


Fig. 5-2 Radiation Diagram(Y)



The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.