

**Features**

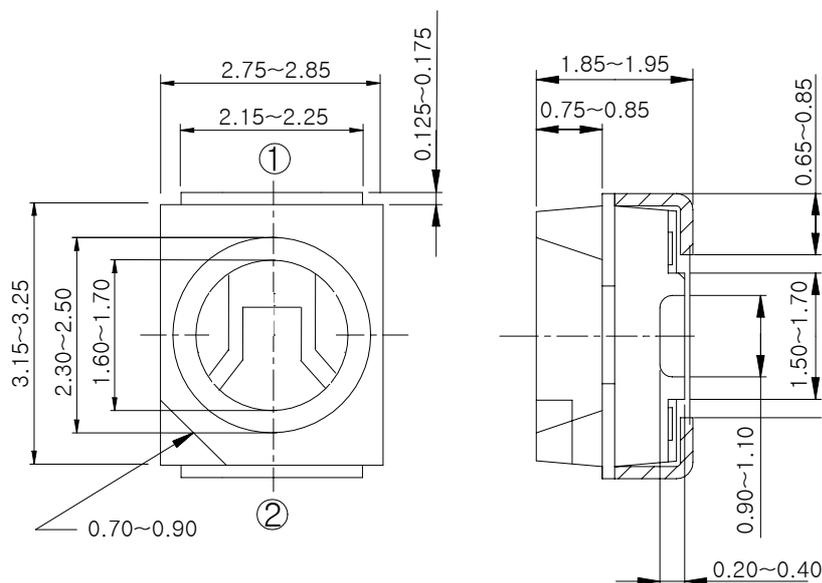
- Colorless transparency lens type
- Using a package with high heat dissipation properties, it can be driven with a large current
- Wide viewing angle
- External dimensions : 3.5(L)×2.8(W)×1.9mm(T) surface mount type

**Applications**

- Backlighting
- Signal indicator
- Symbol backlighting
- Front panel indicator

**Outline Dimensions**

unit : mm



**PIN Connections**

- 1. Anode
- 2. Cathode

## Absolute Maximum Ratings

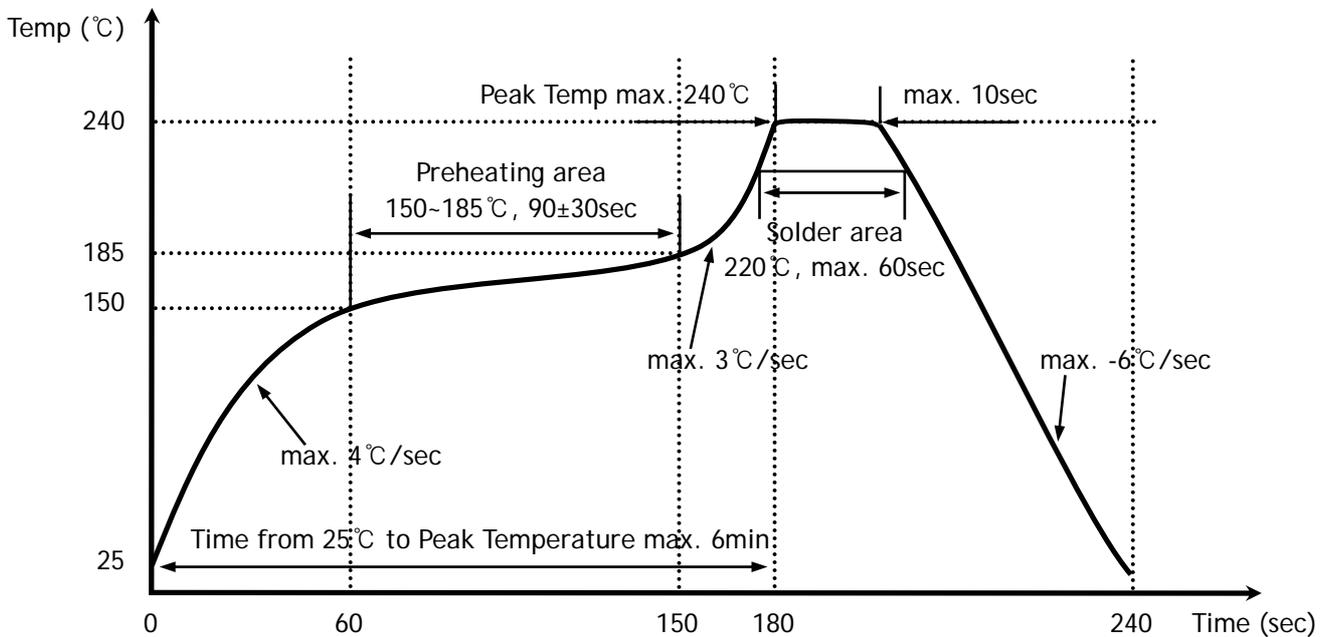
(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	$P_D$	70	mW
Forward current	$I_F$	30	mA
*1 Peak forward current	$I_{FP}$	50	mA
Reverse voltage	$V_R$	5	V
Operating temperature range	$T_{opr}$	-40 ~ 100	°C
Storage temperature range	$T_{stg}$	-40 ~ 110	°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	$V_F$	$I_F=20\text{mA}$	1.85	-	2.2	V
*3 Luminous intensity	$I_V$	$I_F=20\text{mA}$	330	-	580	mcd
Dominant wavelength	$\lambda_D$	$I_F=20\text{mA}$	615	621	628	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	-	17	-	nm
Reverse current	$I_R$	$V_R=5\text{V}$	-	-	10	μA
*4 Half angle	$\theta_{1/2}$	$I_F=20\text{mA}$	-	±60	-	deg

\*3. Luminous intensity maximum tolerance for each grade classification limit is  $\pm 18\%$   
 (The test result of  $I_F=20\text{mA}$  is only for reference)

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

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

Test Condition @ $I_F=20\text{mA}$		
Forward Voltage [V]	Luminous Intensity [mcd]	Dominant Wavelength [nm]
1 : 1.85~2.1	O : 330~440	a : 615~621
2 : 2.1~2.3	P : 440~580	b : 621~628

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

Characteristic Diagrams

Fig. 1  $I_F - V_F$

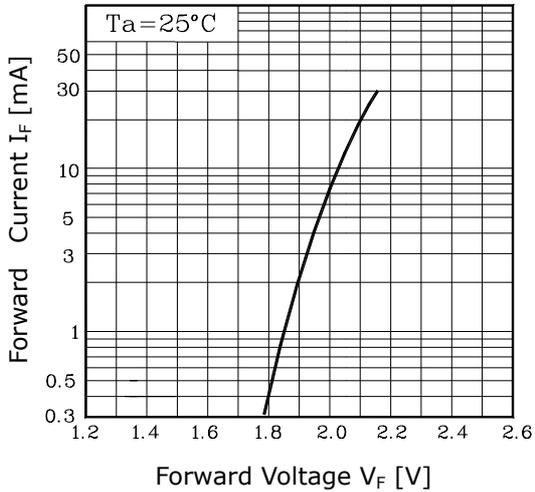


Fig. 2  $I_V - I_F$

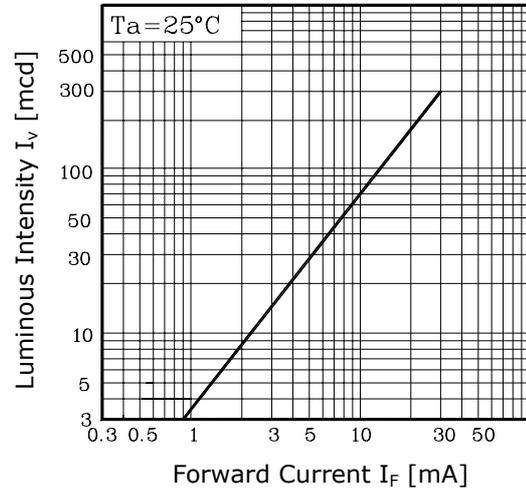


Fig. 3  $I_F - T_a$

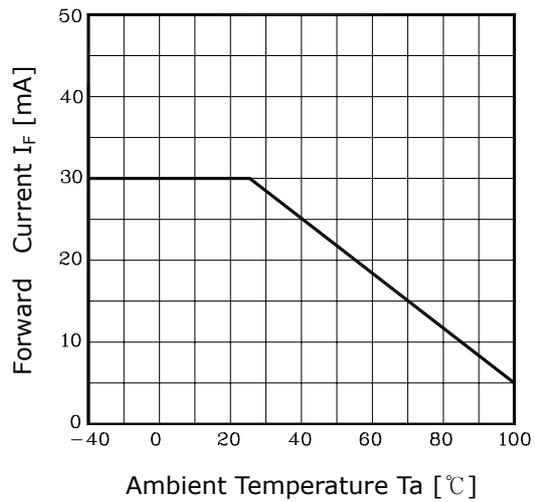


Fig. 4 Spectrum Distribution

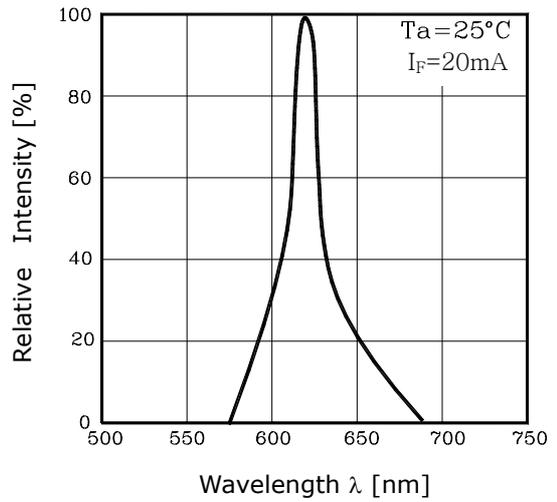
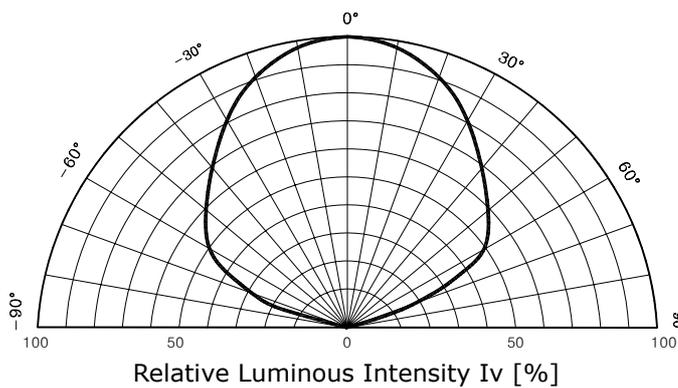


Fig. 5 Radiation Diagram



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