

Features

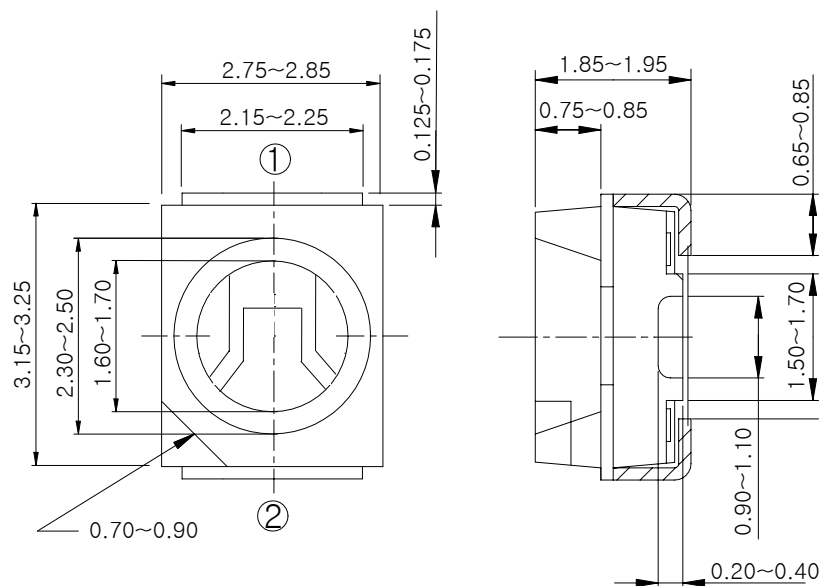
- Colorless transparency lens type
- Using a package with high heat dissipation properties, it can be driven with a large current
- Wide viewing angle
- External dimensions : 3.5(L)×2.8(W)×1.9mm(T) surface mount type

Applications

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

Outline Dimensions

unit : mm

**PIN Connections**

1. Anode
2. Cathode

Absolute Maximum Ratings

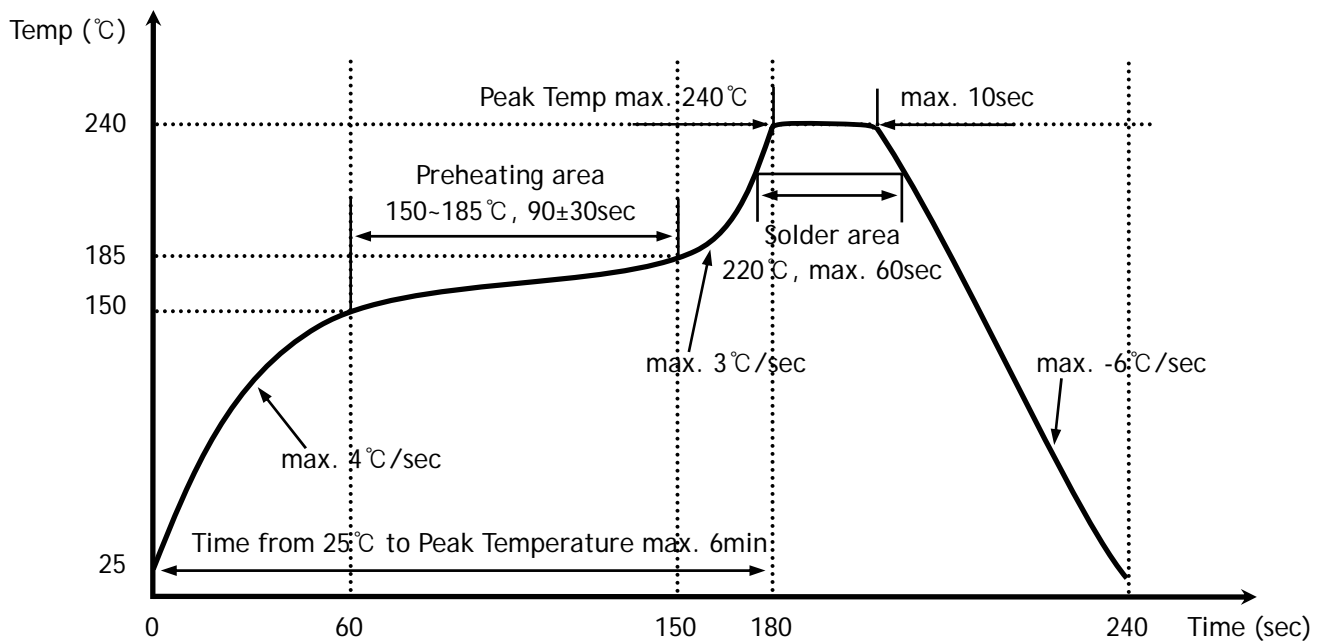
(Ta=25°C)

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	$I_F = 20\text{mA}$	1.95	-	2.4	V
*3 Luminous intensity	I_V	$I_F = 20\text{mA}$	43	-	155	mcd
Dominant wavelength	λ_D	$I_F = 20\text{mA}$	568	571	574	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F = 20\text{mA}$	-	30	-	nm
*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 : 1.95~2.2	J : 43~68	a : 568~570
	K : 68~100	b : 570~572
2 : 2.2~2.4	L : 100~155	c : 572~574

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

Characteristic Diagrams

Fig. 1 $I_F - V_F$

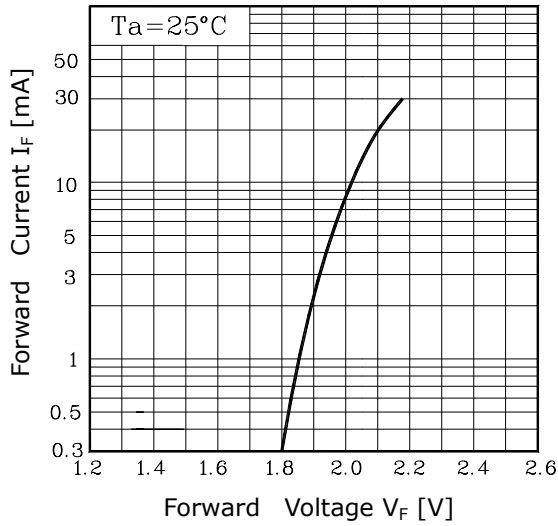


Fig. 2 $I_V - I_F$

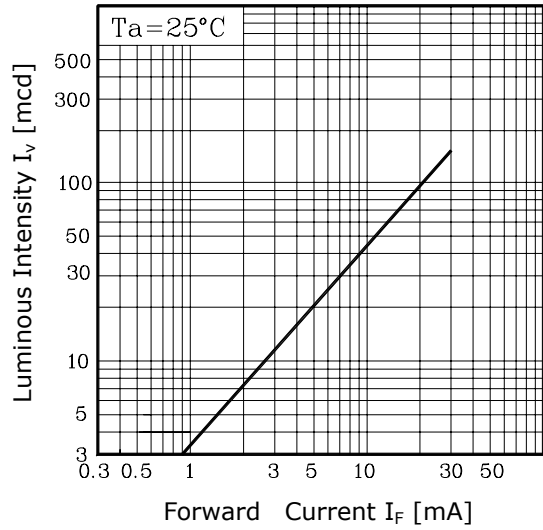


Fig. 3 $I_F - T_a$

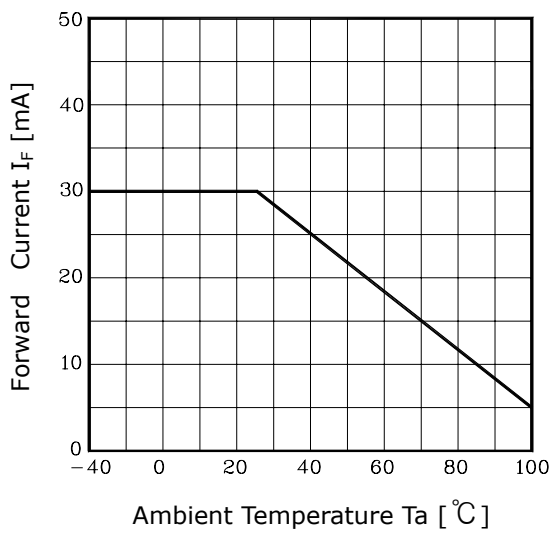


Fig. 4 Spectrum Distribution

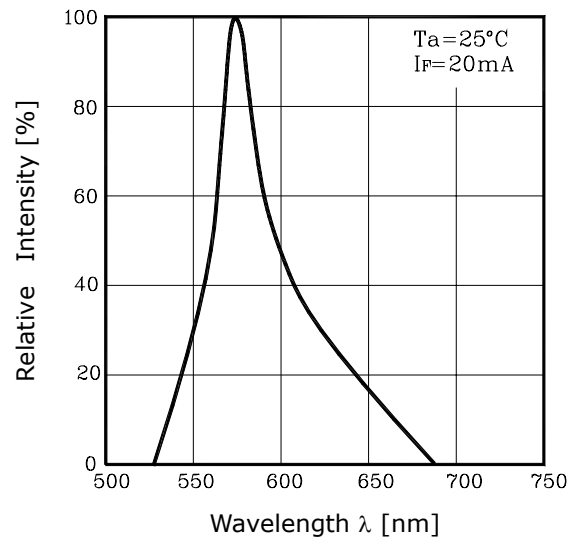
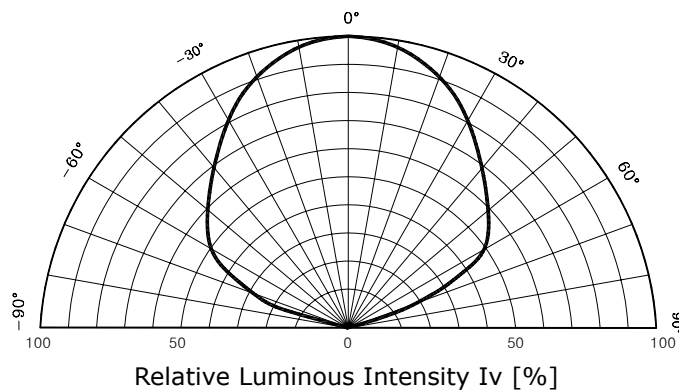


Fig. 5 Radiation Diagram



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