



Features

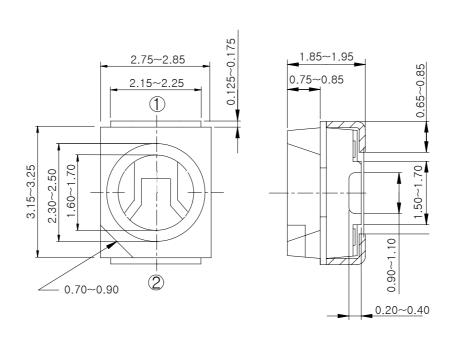
- Colorless transparency lens type
- Using a package with high heat dissipation properties, it can be driven with a large current
- Wide viewing angle
- External dimensions : 3.5(L)×2.8(W)×1.9mm(T) surface mount type

Applications

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

Outline Dimensions

unit: mm



PIN Connections

- 1. Anode
- 2. Cathode

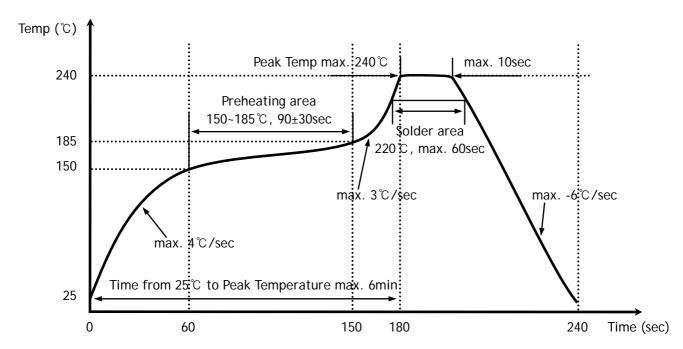
KSD-O8V003-000

Absolute Maximum Ratings

 $(Ta=25^{\circ}C)$

Characteristic	Symbol	Rating	Unit		
Power dissipation	P_{D}	70	mW		
Forward current	${ m I}_{\sf F}$	30	mA		
* ¹ Peak forward current	${ m I}_{\sf FP}$	50	mA		
Reverse voltage	V_R	5	V		
Operating temperature range	T_{opr}	-40~100	$^{\circ}$		
Storage temperature range	T_{stg}	-40~110	$^{\circ}$		
*2Soldering temperature	T _{sol}	240℃ for 10 seconds	240℃ for 10 seconds		

^{*1.}Duty ratio = 1/16, Pulse width = 0.1ms



Electrical / Optical Characteristics

 $(Ta=25^{\circ}C)$

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Forward voltage	V_{F}	I _F = 20mA	1.85	-	2.3	V
* ³ Luminous intensity	I _V	I _F = 20mA	80	-	175	mcd
Dominant wavelength	λ_{D}	I _F = 20mA	615	621	628	nm
Spectrum bandwidth	Δ_{λ}	I _F = 20mA	-	30	-	nm
Reverse current	I_{R}	V _R =5V	-	-	10	μА
* ⁴ Half angle	θ1/2	I _F = 20mA	-	±60	-	deg

^{*2.} Recommended reflow soldering temperature profile

- *3. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$ (The test result of I_F =20mA is only for reference)
- *4. θ 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 (Ta=25°C)

Test Condition @ I _F =20mA					
Forward Voltage [V]	Luminous Intensity [mcd]	Dominant Wavelangth [nm]			
1:1.85~2.1	O:80~120	a: 615~621			
2:2.1~2.3	P: 120~175	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

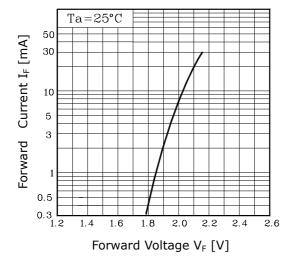


Fig. 2 I_V - I_F

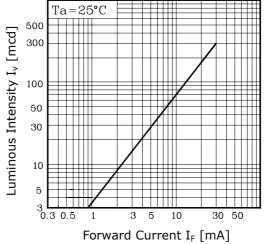


Fig. $3 I_F - Ta$

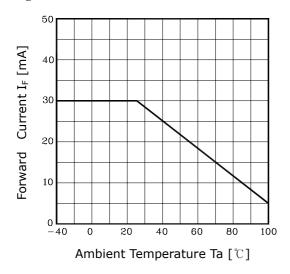


Fig.4 Spectrum Distribution

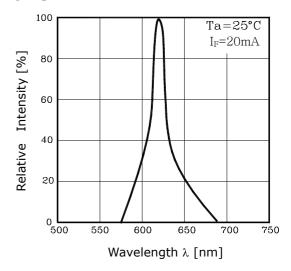
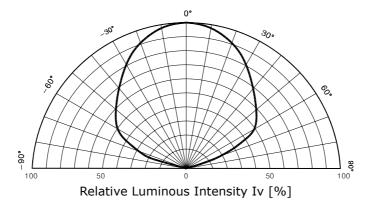


Fig. 5 Radiation Diagram



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