

SPG2336E-G

High Brightness Chip LED

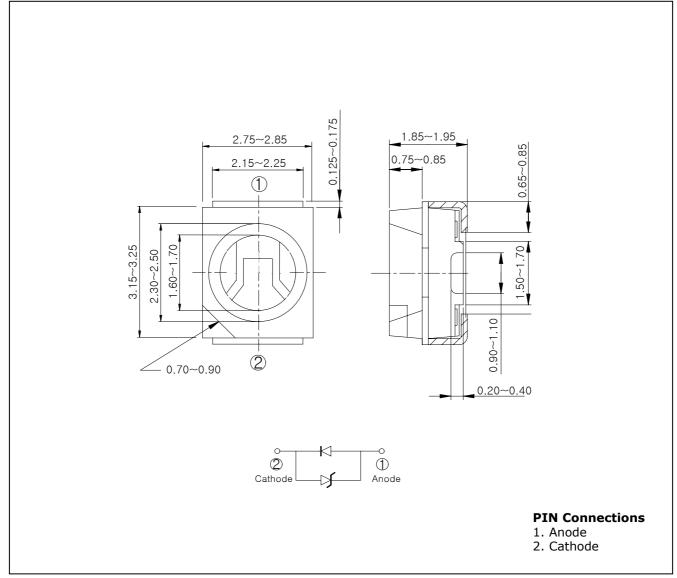
Features

- 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
- E; ESD Protected (±2.0KV, 3 Times @100pF, 1.5KΩ)

Applications

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

Outline Dimensions unit: mm



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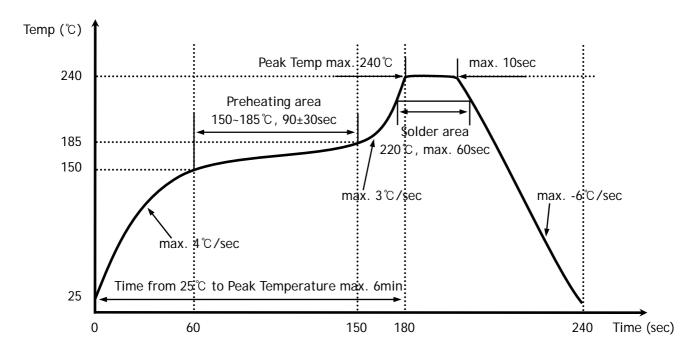
Absolute Maximum Ratings

(Ta	$=25^{\circ}$	\mathbf{C}
(Ia	=43	U

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

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

⁻ Preheating 150°C to 185°C within 120 seconds soldering 240°C within 10 seconds Gradual cooling (Avoid quenching)



Electrical / Optical Characteristics

(To	-250	\mathbf{C}
(IX	=25 (١. ١

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Forward voltage	V_{F}	I _F = 20mA	2.75	-	3.6	V
* ³ Luminous intensity	I_{V}	I _F = 20mA	220	-	550	mcd
Dominant wavelength	λ_{D}	I _F = 20mA	520	525	530	nm
Spectrum bandwidth	Δ_{λ}	I _F = 20mA	-	30	-	nm
* ⁴ Half angle	θ1/2	I _F = 20mA	_	±60	-	deg

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^{*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]	
1:2.75~3.0	N: 220~310	a: 520~525	
2:3.0~3.2		a . 320~323	
3:3.2~3.4	O: 310~410		
4:3.4~3.6	P:410~550	b : 525~530	

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

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Characteristic Diagrams

Fig. 1 I_F - V_F

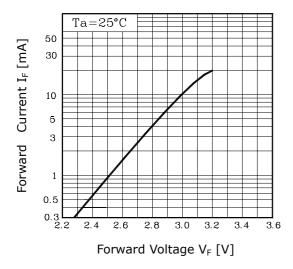


Fig. 2 I_V - I_F

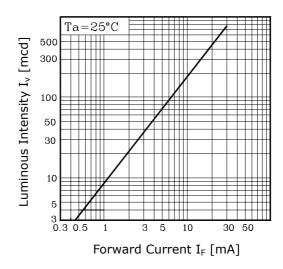


Fig. $3 I_F - Ta$

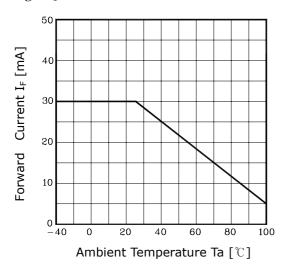


Fig.4 Spectrum Distribution

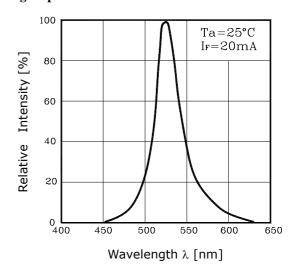
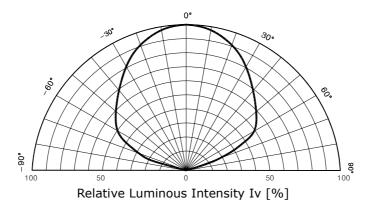


Fig. 5 Radiation Diagram



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