

SM2336-E

High Brightness Chip LED

Features

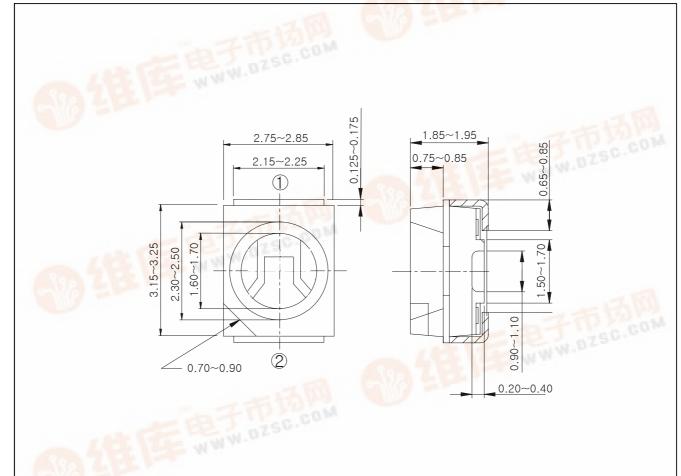
- Colorless transparency lens type
- Using a package with high heat dissipation properties, it can be driven with a large current
- Wide viewing angle
- External dimensions: 3.5(L)×2.8(W)×1.9mm(T) surface mount type

Applications

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

Outline Dimensions

unit: mm



PIN Connections

- 1. Anode
- 2. Cathode

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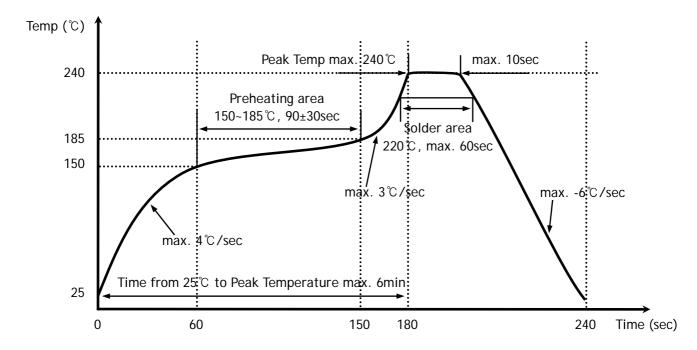
Absolute Maximum Ratings

(Ta=25°C)

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

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

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Forward voltage	V _F	I _F = 20mA	1.95	-	2.4	V
* ³ Luminous intensity	I _V	I _F = 20mA	43	-	155	mcd
Dominant wavelength	λ_{D}	I _F = 20mA	568	571	574	nm
Spectrum bandwidth	Δ_{λ}	I _F = 20mA	-	30	-	nm
* ⁴ Half angle	θ1/2	I _F = 20mA	-	±60	-	deg

^{*2.} Recommended reflow soldering temperature profile

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- *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 : 1.95~2.2 2 : 2.2~2.4	J : 43~68	a:568~570			
	K: 68~100	b : 570~572			
	L: 100~155	c : 572~574			

(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

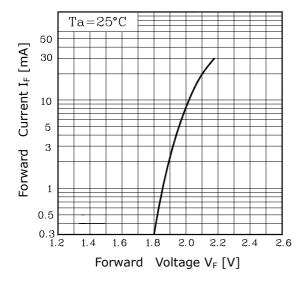


Fig. $3 I_F - Ta$

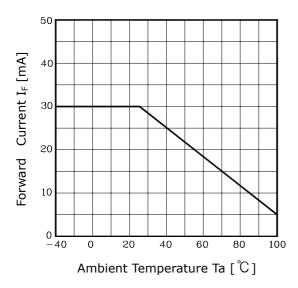


Fig. 5 Radiation Diagram



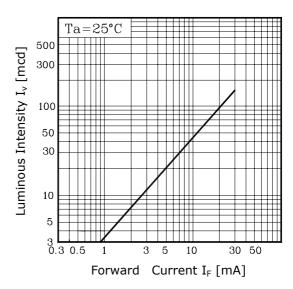
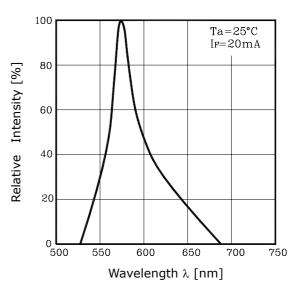
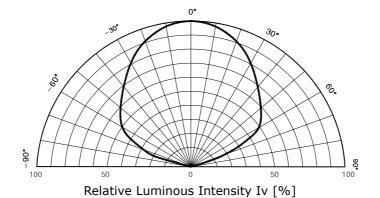


Fig.4 Spectrum Distribution





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