

SB2336E-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 $0.125 \sim 0.175$ 1.85~1.95 2.75~2.85 0.75~0.85 2.15~2.25 (1) $3.15 \sim 3.25$ $60 \sim 1.70$ 2.30~2.50 0.90~1.10 2 __ 0.70~0.90 0.20~0.40 1 Cathode Anode **PIN Connections** 1. Anode 2. Cathode

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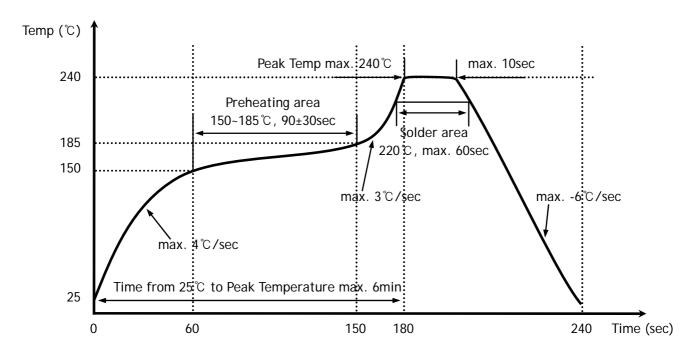
Absolute Maximum Ratings

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

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

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

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



Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Forward voltage	V_{F}	I _F = 20mA	2.95	-	3.6	٧
* ³ Luminous intensity	I _V	I _F = 20mA	170	-	420	mcd
Dominant wavelength	λ_{D}	I _F = 20mA	464	470	476	nm
Spectrum bandwidth	Δ_{λ}	I _F = 20mA	-	26	-	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]			
1:2.95~3.2	M: 170~230	a: 464~470			
2 . 2 2 . 2 4	N + 220210	a . 404.4470			
2:3.2~3.4	N: 230~310	h : 470∼476			
3:3.4~3.6	O:310~420	B : 470°470			

(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

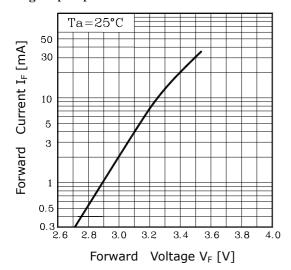


Fig. 2 I_V - I_F

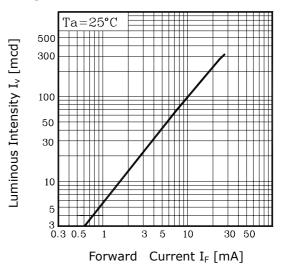


Fig. $3 I_F - Ta$

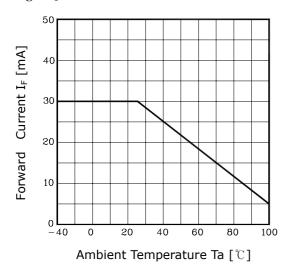


Fig.4 Spectrum Distribution

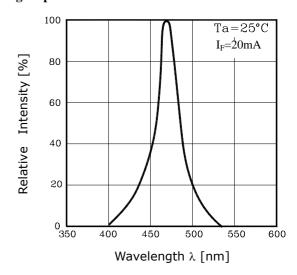
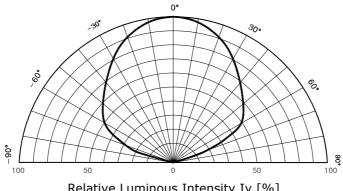


Fig. 5 Radiation Diagram



Relative Luminous Intensity Iv [%]

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