

SO2336-G

High Brightness Chip LED

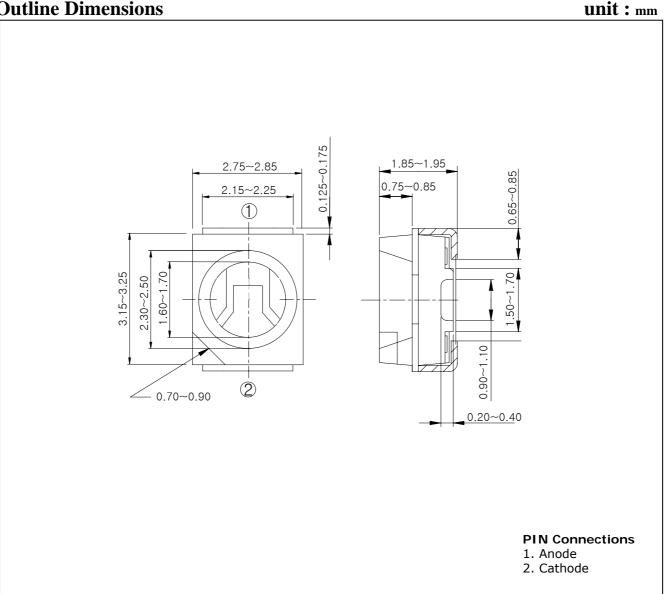
Features

- 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

Applications

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

Outline Dimensions



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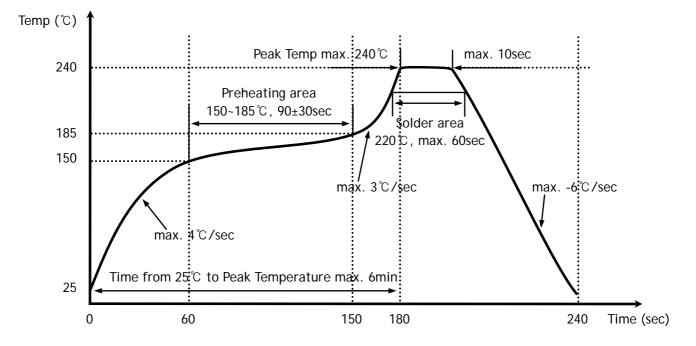
Absolute Maximum Ratings

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}	$-40 \sim 100$	C
Storage temperature range	T _{stg}	$-40 \sim 110$	C
* ² Soldering temperature	T _{sol}	240 $^\circ C$ 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

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

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Symbol	Test Condition	Min	Тур	Max	Unit
V _F	I _F = 20mA	1.85	-	2.3	V
Iv	I _F = 20mA	220	-	410	mcd
λ_{D}	I _F = 20mA	600	604	608	nm
Δ_{λ}	I _F = 20mA	-	35	-	nm
I _R	V _R =5V	-	-	10	μA
θ1/2	I _F = 20mA	-	±60	-	deg
	Symbol V_F I_V λ_D Δ_λ I_R	$\begin{tabular}{ c c c c } \hline Symbol & Test Condition \\ \hline V_F & $I_F= 20mA$ \\ \hline I_V & $I_F= 20mA$ \\ \hline λ_D & $I_F= 20mA$ \\ \hline Δ_λ & $I_F= 20mA$ \\ \hline I_R & $V_R=5V$ \\ \hline $V_R=5V$ \\ \hline \end{tabular}$	$\begin{tabular}{ c c c c c } \hline Symbol & Test Condition & Min \\ \hline V_F & $I_F=20mA$ & 1.85 \\ \hline I_V & $I_F=20mA$ & 220 \\ \hline λ_D & $I_F=20mA$ & 600 \\ \hline Δ_{λ} & $I_F=20mA$ & $-$ \\ \hline I_R & $V_R=5V$ & $-$ \\ \hline $V_$	$\begin{tabular}{ c c c c c c } \hline Symbol & Test Condition & Min & Typ \\ \hline V_F & $I_F=20mA$ & 1.85 & $-$ \\ \hline I_V & $I_F=20mA$ & 220 & $-$ \\ \hline λ_D & $I_F=20mA$ & 600 & 604 \\ \hline Δ_{λ} & $I_F=20mA$ & $-$ & 35 \\ \hline I_R & $V_R=5V$ & $-$ & $-$ \\ \hline I_R & $V_R=5V$ & $V_R=5V$ & $-$ & $-$ \\ \hline I_R & $V_R=5V$ & $-$ & $-$ \\ \hline I_R & $V_R=5V$ & $V_R=5V$ & $-$ & $-$ \\ \hline I_R & $V_R=5V$ & $V_R=5V$ & $-$ & $-$ \\ \hline I_R & $V_R=5V$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$

- *4. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$ (The test result of I_F=20mA is only for reference)
- *5. $\theta 1/2$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity
- V_F / I_V Grade Classification (Ta=25°C)

Test Condition @ I _F =20mA			
Forward Voltage [V]	Luminous Intensity [mcd]		
1 : 1.85~2.1	N:220~310		
2 : 2.1~2.3	O:310~410		

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

Characteristic Diagrams

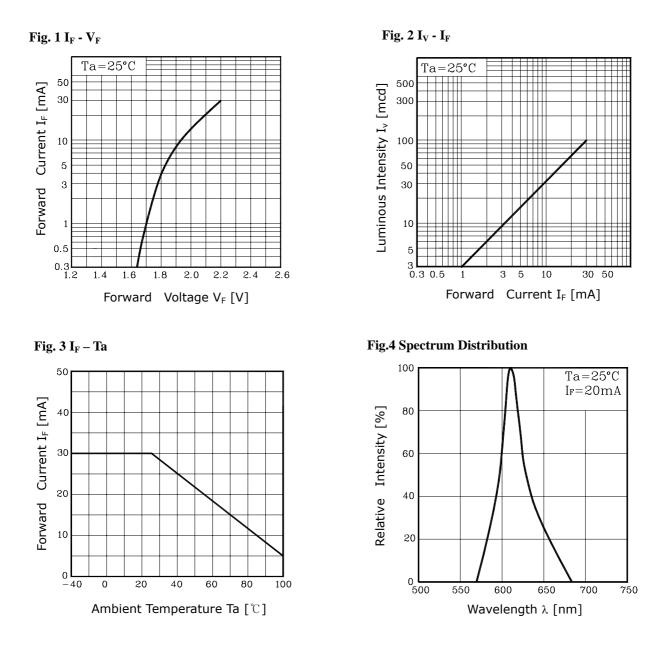
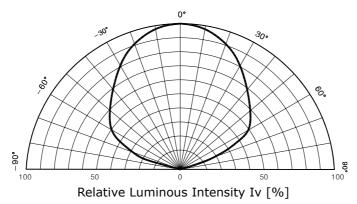


Fig. 5 Radiation Diagram



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