



SA3418 / SA3418(B)

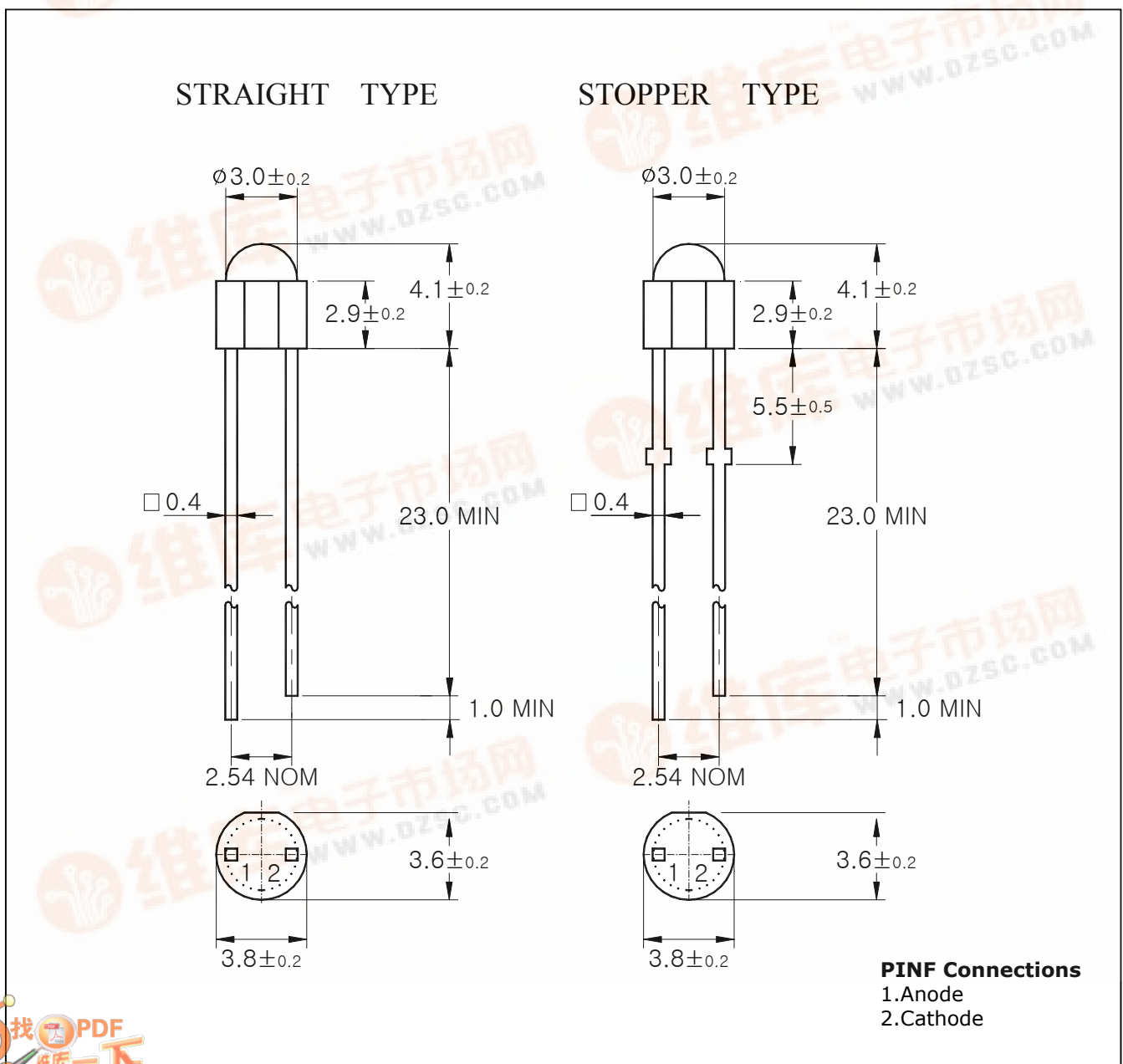
LED Lamp

Features

- Red Colored transparency lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- Wide viewing angle
- Low power consumption

Outline Dimensions

unit : mm



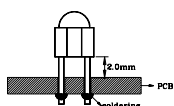
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Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	85	mW
Forward Current	I_F	30	mA
* ¹ Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25 ~ 85	°C
Storage Temperature	T_{stg}	-30 ~ 100	°C
* ² Soldering Temperature	T_{sol}	260°C for 5 seconds	

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

*2.Keep the distance more than 2.0mm from PCB to the bottom of LED package



Electrical Characteristics

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	-	2.0	2.7	V
Luminous Intensity	I_V	$I_F = 20\text{mA}$	10	27	43	mcd
Peak Wavelength	λ_P	$I_F = 20\text{mA}$	-	630	-	nm
Spectrum Bandwidth	$\Delta \lambda$	$I_F = 20\text{mA}$	-	35	-	nm
Reverse Current	I_R	$V_R = 4\text{V}$	-	-	10	uA
* ³ Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	±45	-	deg

*3. Luminous Intensity Maximum tolerance for each Grade Classification limit is ±18%

*3. Luminous Intensity classification

G	H	I
10~17	17~27	27~43

*4. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

Characteristic Diagrams

Fig. 1 $I_F - V_F$

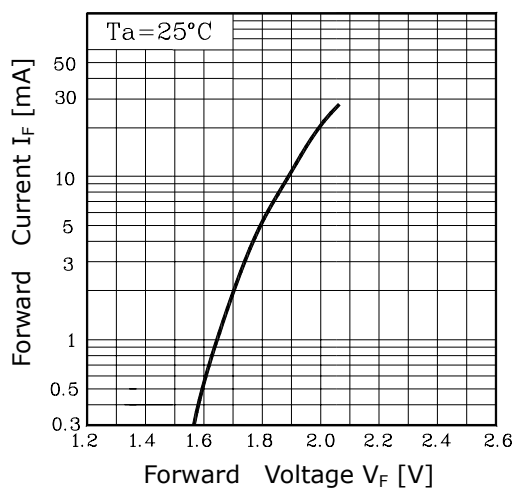


Fig. 2 $I_V - I_F$

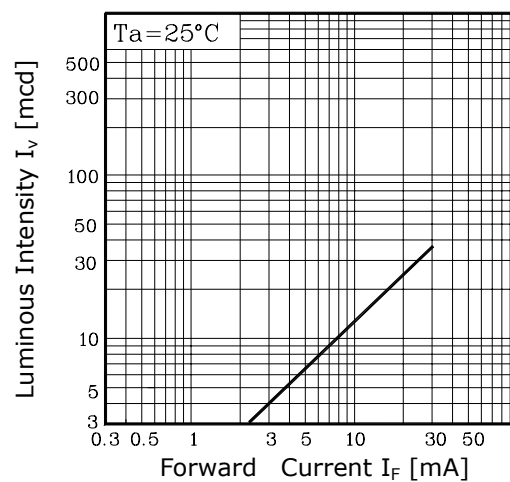


Fig. 3 $I_F - T_a$

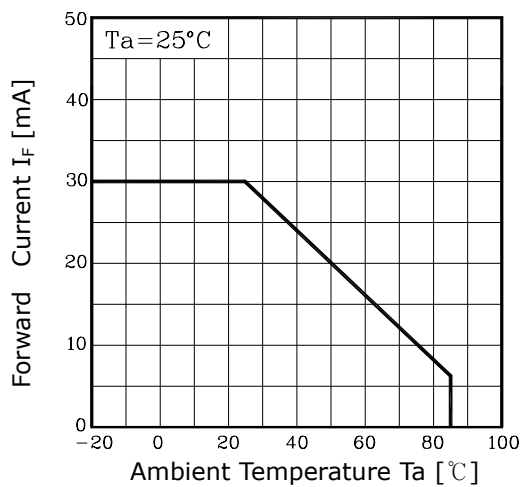


Fig.4 Spectrum Distribution

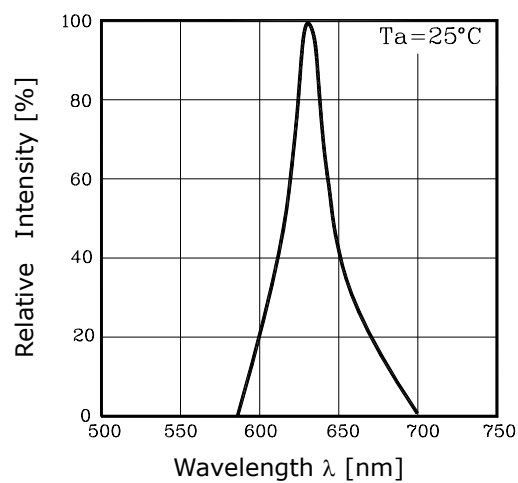


Fig. 5 Radiation Diagram

