



SM3318-D

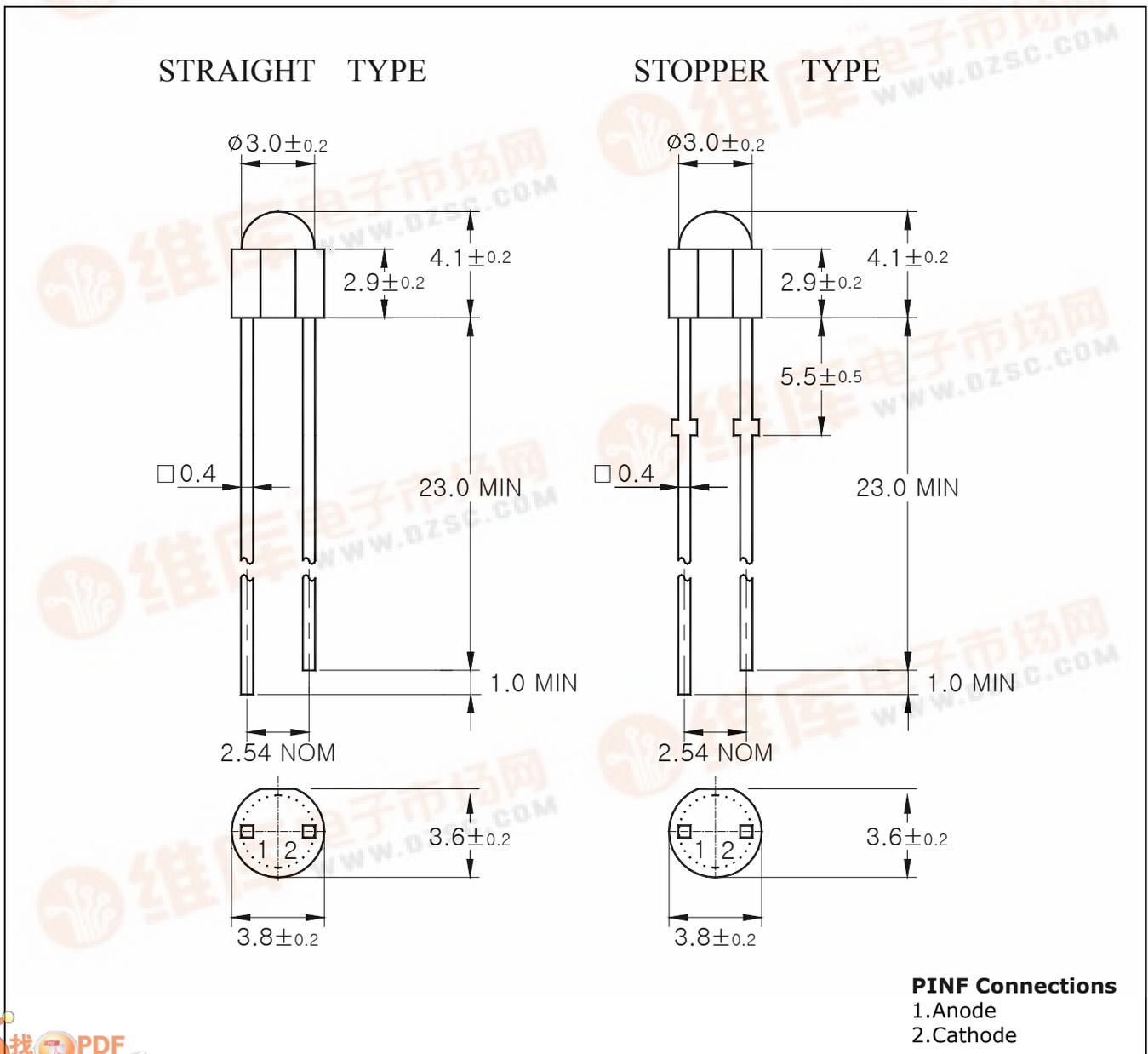
LED Lamp

Features

- Green colored transparency lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- Low power consumption

Outline Dimensions

unit : mm



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	$I_F = 20\text{mA}$	-	1.95	2.20	V
Luminous Intensity	I_V	$I_F = 20\text{mA}$	55	75	-	mcd
Peak Wavelength	λ_p	$I_F = 20\text{mA}$	-	570	-	nm
Spectrum Bandwidth	$\Delta \lambda$	$I_F = 20\text{mA}$	-	30	-	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. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

Characteristic Diagrams

Fig. 1 $I_F - V_F$

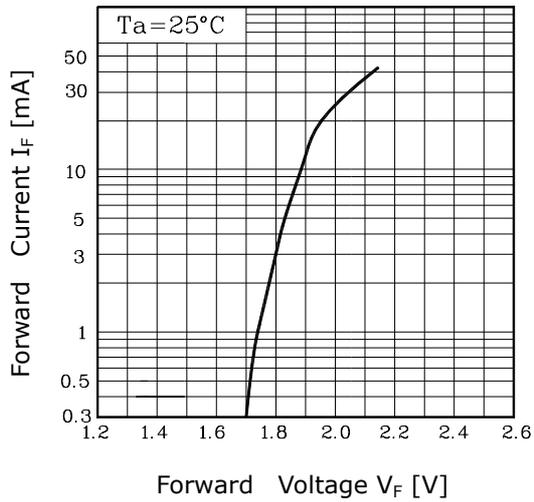


Fig. 2 $I_V - I_F$

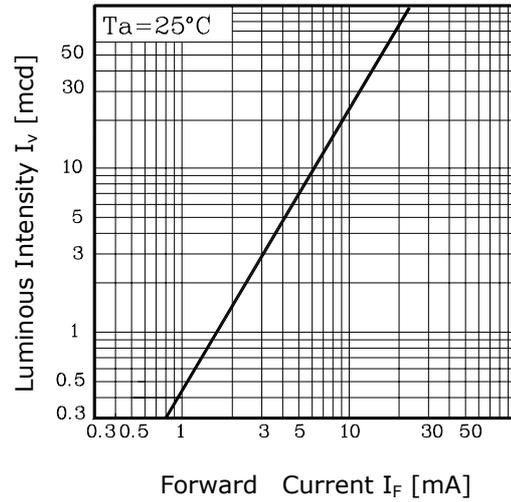


Fig. 3 $I_F - T_a$

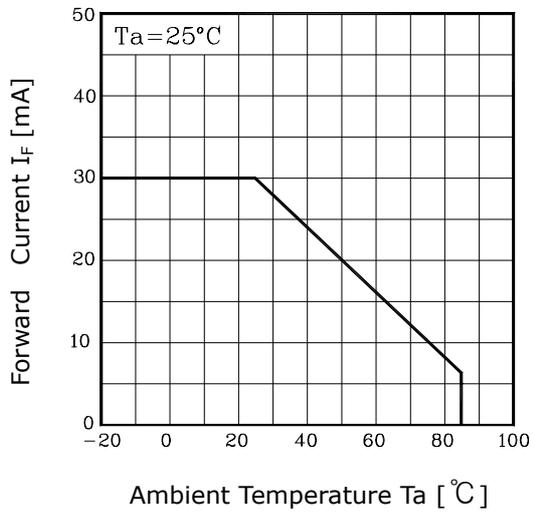


Fig. 4 Spectrum Distribution

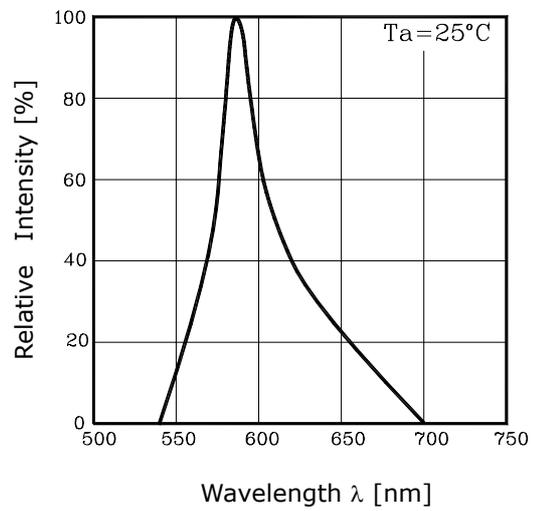
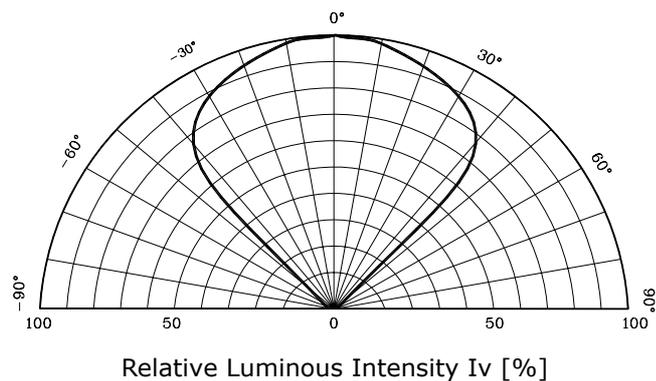


Fig. 5 Radiation Diagram



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