



SO3517

LED Lamp

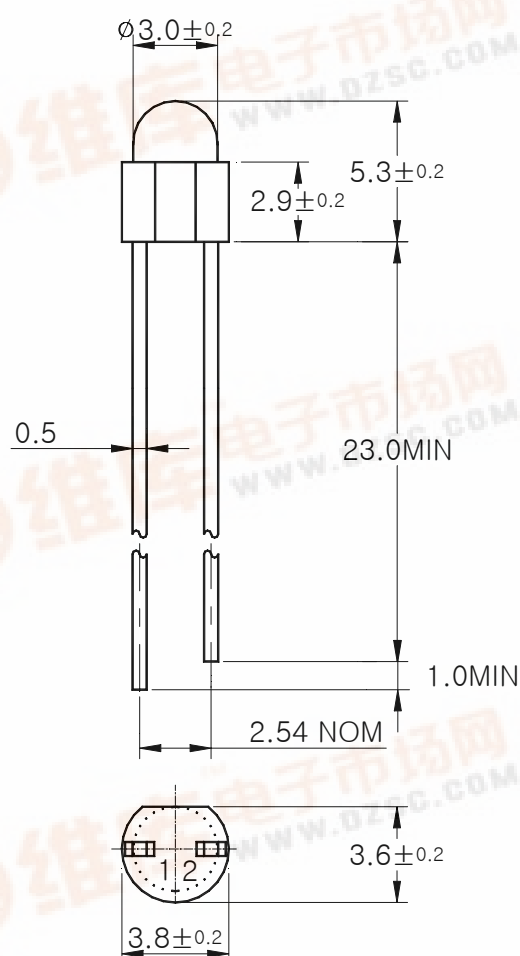
Features

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

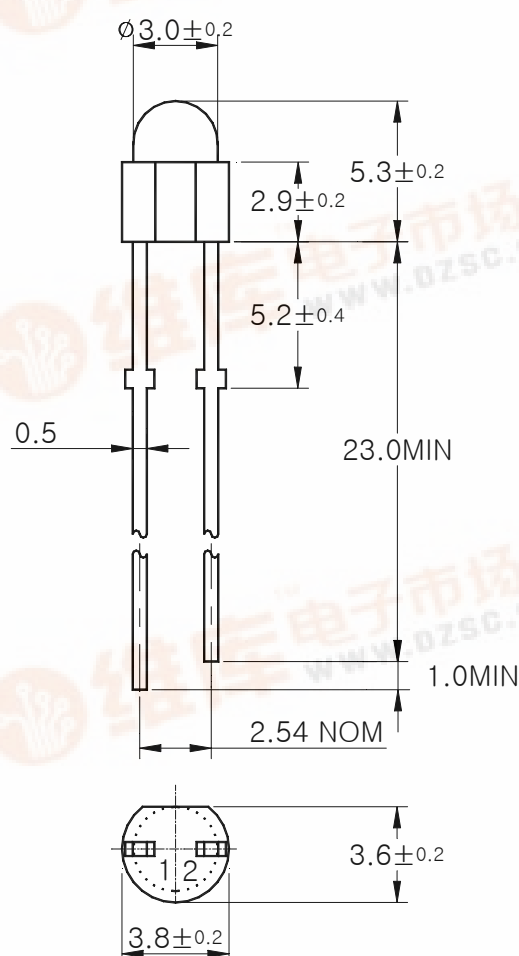
Outline Dimensions

unit : mm

STRAIGHT TYPE



STOPPER TYPE



PIN Connections

1. Anode
2. Cathode

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	85	mW
Forward Current	I_F	30	mA
*1Peak 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
*2Soldering Temperature	T_{sol}	260 °C for 5 seconds	°C

*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	$I_F = 20\text{mA}$	-	30	-	mcd
Peak Wavelength	λ_P	$I_F = 20\text{mA}$	-	615	-	nm
Spectrum Bandwidth	$\Delta \lambda$	$I_F = 20\text{mA}$	-	35	-	nm
Reverse Current	I_R	$V_R = 4\text{V}$	-	-	10	uA
Half angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	±22	-	deg

Characteristic Diagrams

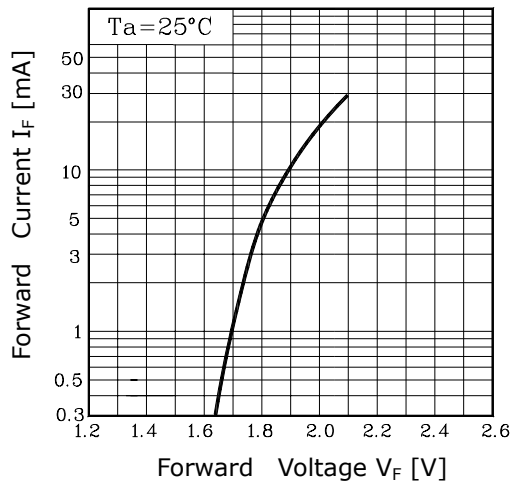
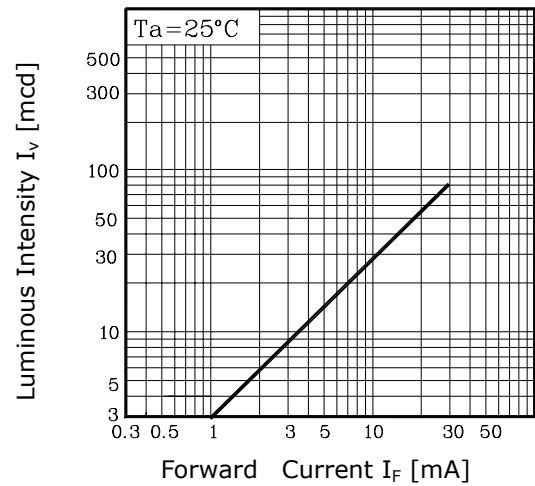
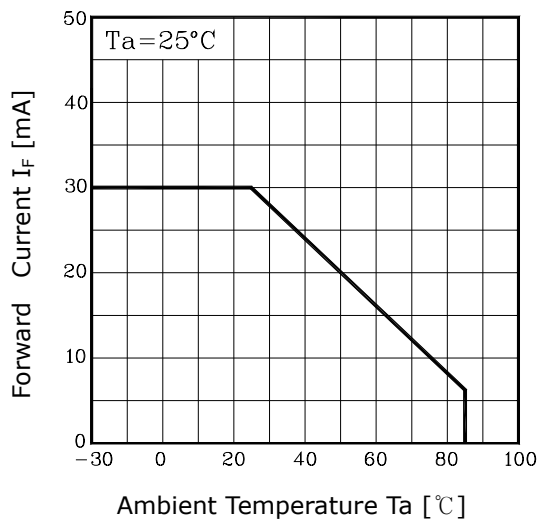
Fig. 1 $I_F - V_F$ Fig. 2 $I_V - I_F$ Fig. 3 $I_F - T_a$ 

Fig. 4 Spectrum Distribution

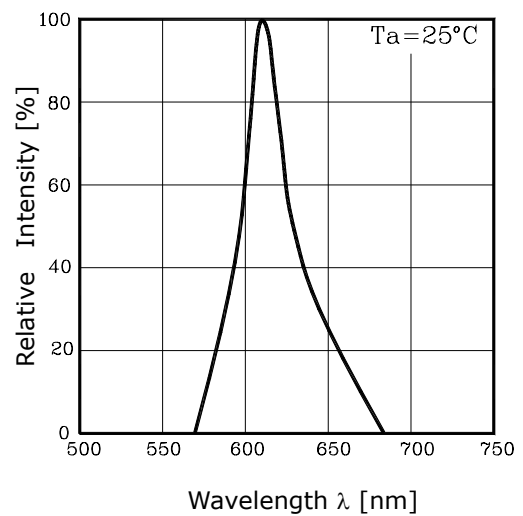


Fig. 5 Radiation Diagram

