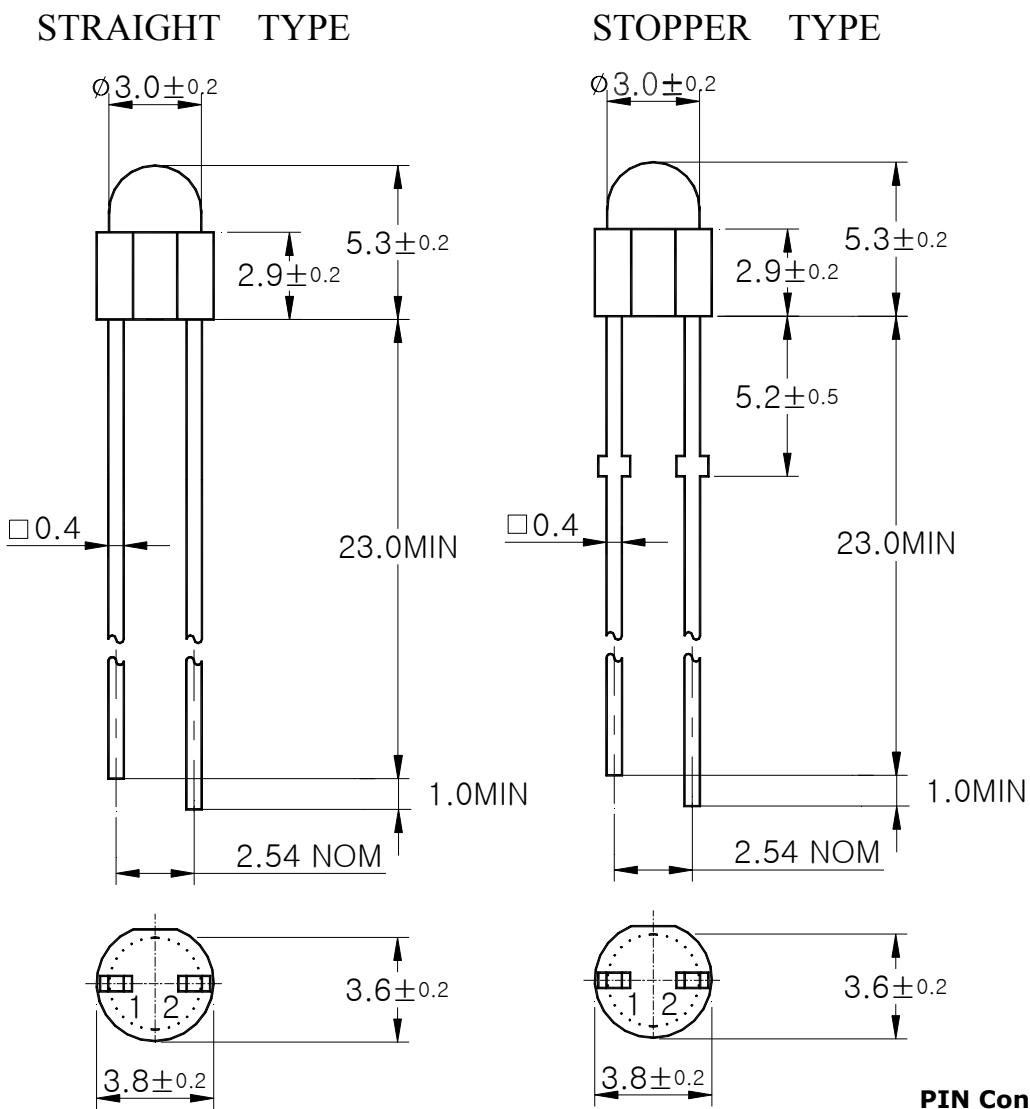


## Features

- Red colored diffusion lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- Ultra luminosity

## Outline Dimensions

unit : mm



# SR3517-U / SR3517-U(B)

## Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P <sub>D</sub>	75	mW
Forward Current	I <sub>F</sub>	30	mA
* <sup>1</sup> Peak Forward Current	I <sub>FP</sub>	50	mA
Reverse Voltage	V <sub>R</sub>	3	V
Operating Temperature	T <sub>opr</sub>	-25~85	°C
Storage Temperature	T <sub>stg</sub>	-30~100	°C
* <sup>2</sup> Soldering Temperature	T <sub>sol</sub>	260°C for 3 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

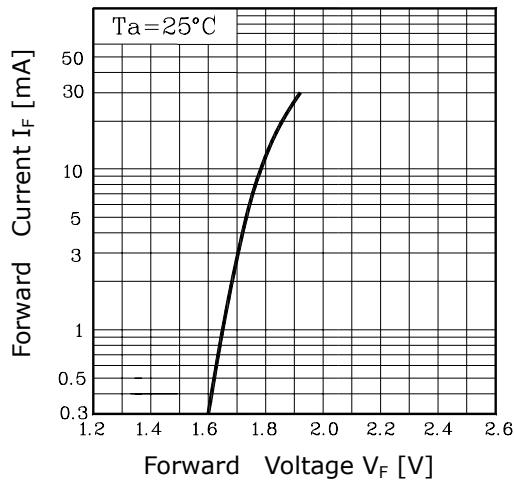
## Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	-	1.85	2.3	V
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 20mA	230	400	780	mcd
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> = 20mA	-	660	-	nm
Spectrum Bandwidth	Δ λ	I <sub>F</sub> = 20mA	-	20	-	nm
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =4V	-	-	10	uA
* <sup>3</sup> Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> = 20mA	-	±25	-	deg

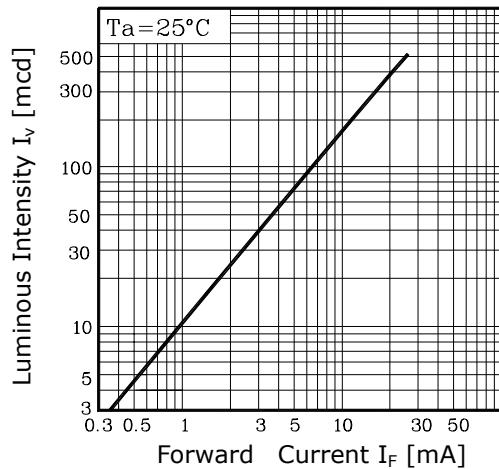
\*3. θ<sub>1/2</sub> is the off-axis angle where the luminous intensity is 1/2 the peak intensity

## Characteristic Diagrams

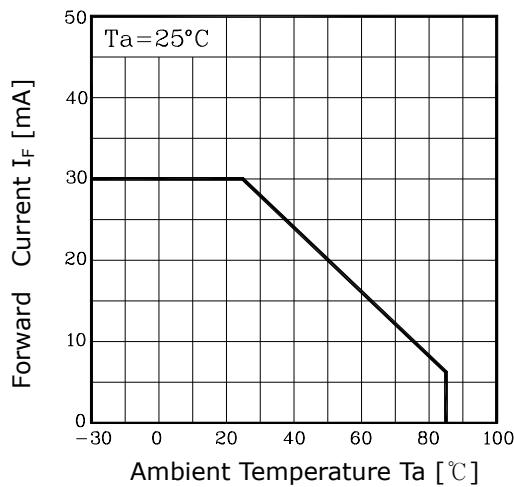
**Fig. 1**  $I_F - V_F$



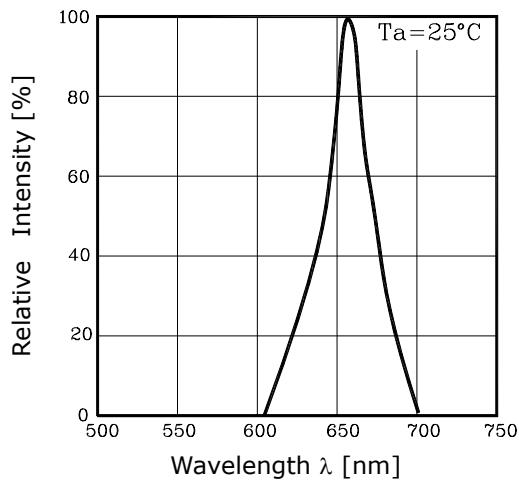
**Fig. 2**  $I_V - I_F$



**Fig. 3**  $I_F - T_a$



**Fig. 4 Spectrum Distribution**



**Fig. 5 Radiation Diagram**

