

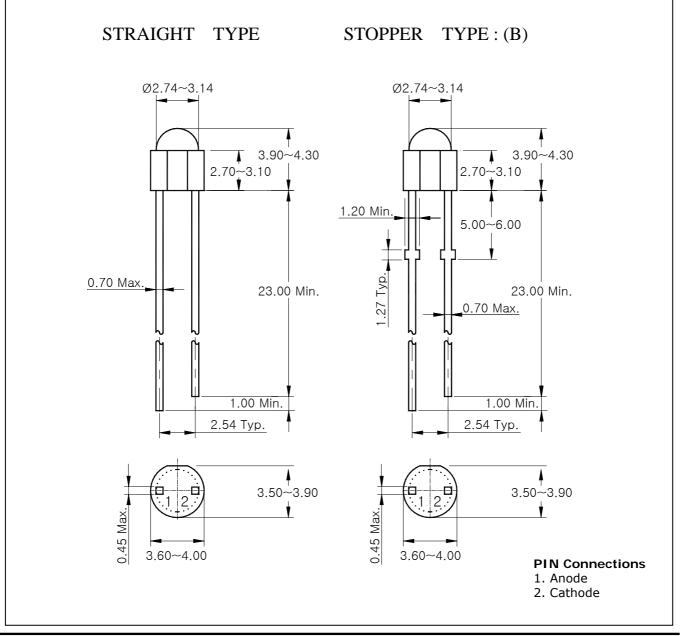
# SA3518-D / SA3518-D(B)

#### Features

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

### **Outline Dimensions**

unit : mm



# SA3518-D / SA3518-D(B)

#### Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25°C)
Characteristic	Symbol	Rating	Unit
Power Dissipation	P <sub>D</sub>	75	mW
Forward Current	I <sub>F</sub>	30	mA
* <sup>1</sup> Peak Forward Current	$\mathbf{I}_{FP}$	50	mA
Reverse Voltage	V <sub>R</sub>	4	V
Operating Temperature range	T <sub>opr</sub>	-25~85	Ĵ
Storage Temperature range	T <sub>stg</sub>	-30~100	Ĵ
* <sup>2</sup> Soldering Temperature	T <sub>sol</sub>	260 $^\circ C$ for 10 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 / Optical Characteristics**

(Ta=25°C) Symbol Characteristic **Test Condition** Max Unit Min Тур Forward Voltage  $I_F = 20 \text{mA}$ 2.1 2.5 V  $V_{\mathsf{F}}$ --\*<sup>3</sup>Luminous Intensity  $I_F = 20 \text{mA}$  $I_V$ 43 155 mcd Peak Wavelength  $I_F = 20 \text{mA}$ 630 λp \_ \_ nm Spectrum Bandwidth  $I_F = 20 \text{mA}$ 30 - $\Delta_{\lambda}$ \_ nm **Reverse Current**  $\mathbf{I}_{\mathsf{R}}$  $V_R = 4V$ \_ \_ 10 uA \*<sup>4</sup>Half Angle  $\theta 1/2$  $I_F = 20 \text{mA}$ -±55 deg

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

\*3. Luminous intensity maximum tolerance for each grade classification limit is  $\pm 18\%$ 

\*3. Luminous Intensity Classification

J	К	L	
43 ~ 68	68 ~ 100	100 ~ 155	

## SA3518-D / SA3518-D(B)

### **Characteristic Diagrams**

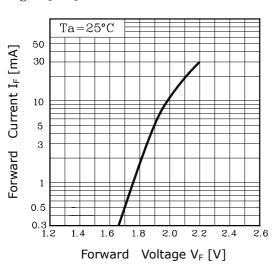
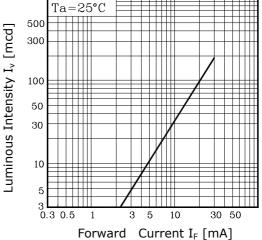


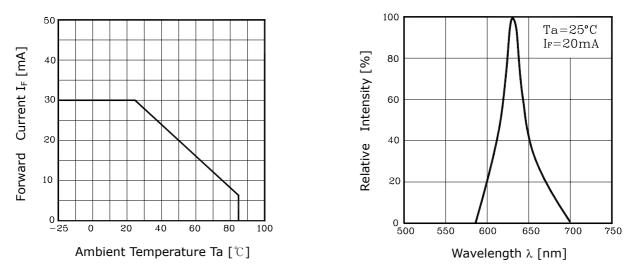
Fig. 1 I<sub>F</sub> - V<sub>F</sub>

Fig. 2  $I_V$  -  $I_F$ 

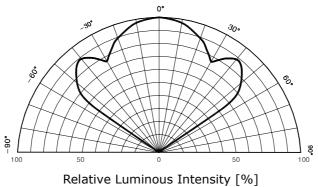




**Fig.4 Spectrum Distribution** 







KSD-02C009-000

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