

# **SDB0540**

**Schottky Barrier Diode** 

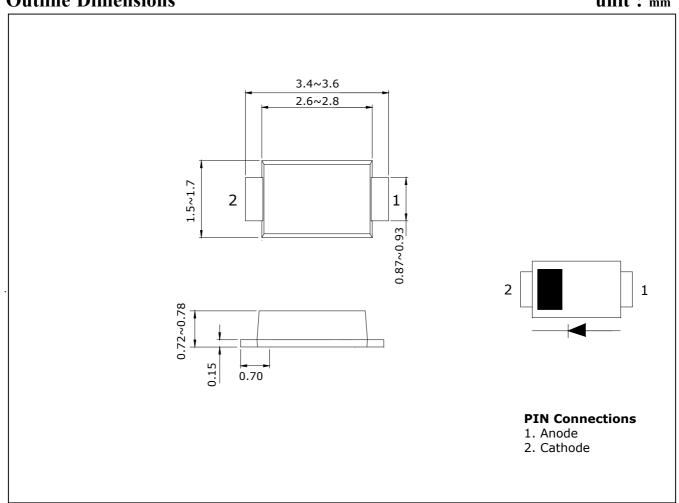
#### **Features**

- Low power rectified
- Silicon epitaxial type
- High reliability

## **Ordering Information**

Type No. Marking		Package Code	
SDB0540	540	SOD-123	

#### Outline Dimensions unit: mm



**Absolute maximum ratings** 

Ta=25°C

Characteristic	Symbol	Rating	Unit
Reverse voltage	$V_R$	40	V
Repetitive peak forward current	${ m I_{FRM}}^*$	1.0	Α
Forward current	$I_{F}$	0.5	Α
Non-repetitive peak forward current(10ms)	$I_{FSM}$	2	Α
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55~150	°C

<sup>\* :</sup>  $\delta = D/T = 0.33$  (T<1S)



<sup>\*:</sup> Unit ratings. Total rating=Unit rating×1.5

#### **Electrical Characteristics**

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage *	$V_{F(1)}$	I <sub>F</sub> =0.5A	-	-	0.51	V
	V <sub>F(2)</sub>	I <sub>F</sub> =1.0A	-	1	0.62	٧
Reverse current	$I_{R}$	V <sub>R</sub> =40V	-	-	20	μΑ
Total capacitance	$C_T$	V <sub>R</sub> =40V, f=1MHz	-	14	-	pF

<sup>\*</sup> Pulse Test : Pulse width  $\leq$  250us, Duty cycle  $\leq$  2%

### **Electrical Characteristic Curves**

Fig. 1 Forward Voltage Characteristics

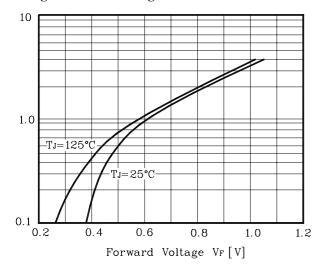


Fig. 2 Reverse Characteristics

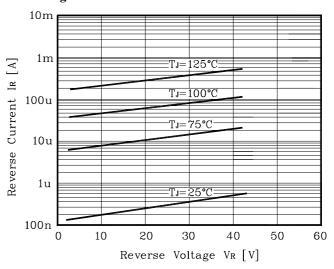
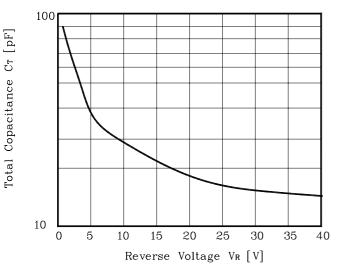


Fig. 3 Capacitance

Forward Current IF [A]



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