



# SDB0540

Schottky Barrier Diode

## Features

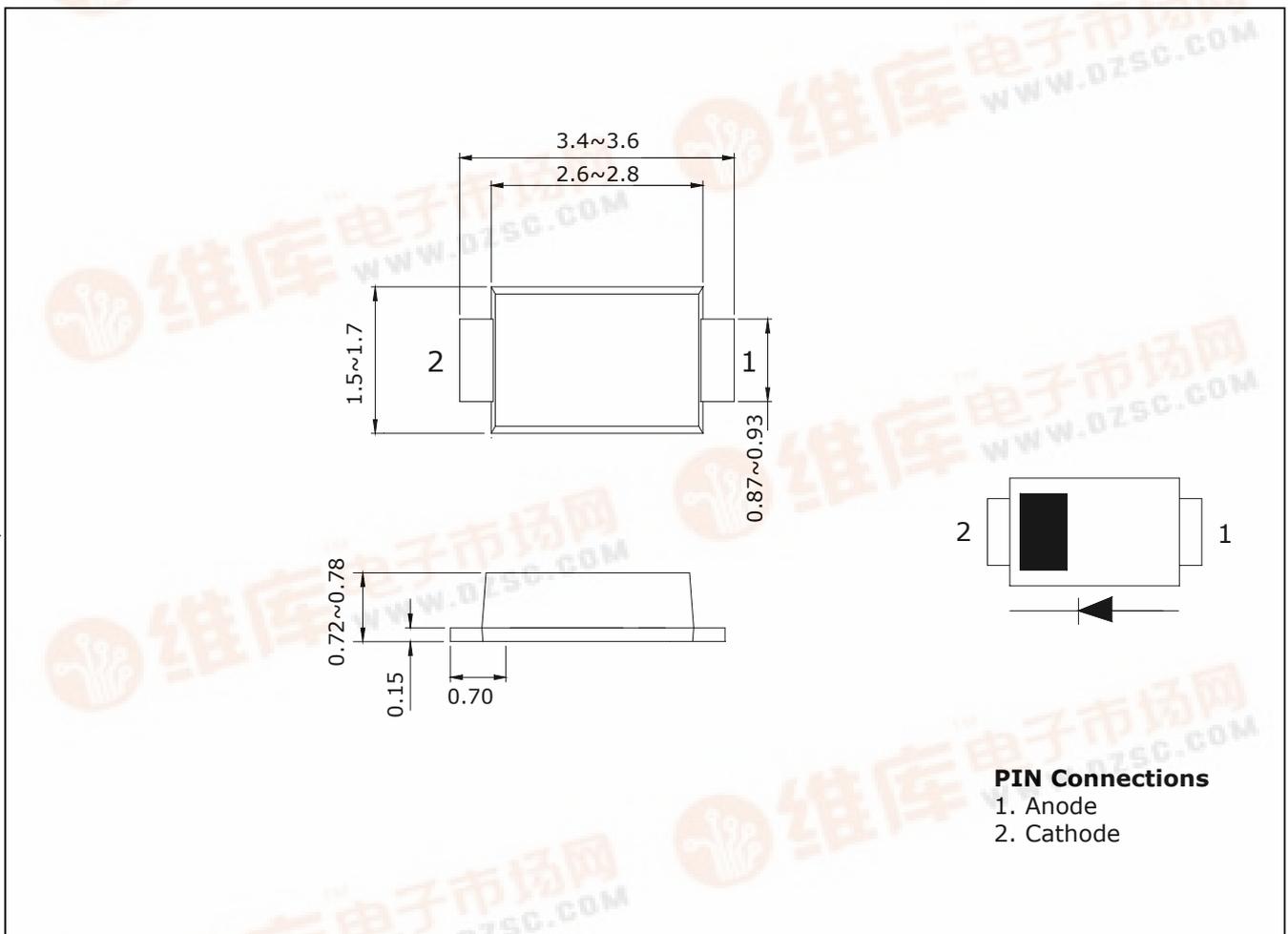
- Low power rectified
- Silicon epitaxial type
- High reliability

## Ordering Information

Type No.	Marking	Package Code
SDB0540	540	SOD-123

## Outline Dimensions

unit : mm



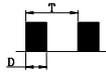
# SDB0540

## Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	40	V
Repetitive peak forward current	I <sub>FRM</sub> *	1.0	A
Forward current	I <sub>F</sub>	0.5	A
Non-repetitive peak forward current(10ms)	I <sub>FSM</sub>	2	A
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55~150	°C

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



\* : Unit ratings. Total rating=Unit rating×1.5

## Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage *	V <sub>F(1)</sub>	I <sub>F</sub> =0.5A	-	-	0.51	V
	V <sub>F(2)</sub>	I <sub>F</sub> =1.0A	-	-	0.62	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =40V	-	-	20	μA
Total capacitance	C <sub>T</sub>	V <sub>R</sub> =40V, f=1MHz	-	14	-	pF

\* Pulse Test : Pulse width ≤ 250us, Duty cycle ≤ 2%

Electrical Characteristic Curves

Fig. 1 Forward Voltage Characteristics

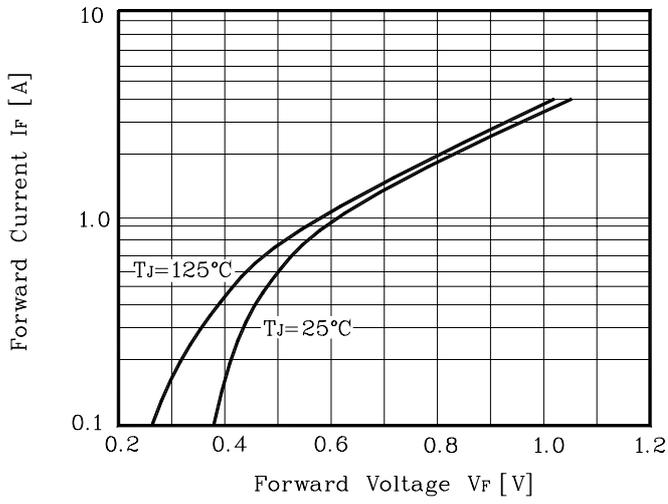


Fig. 2 Reverse Characteristics

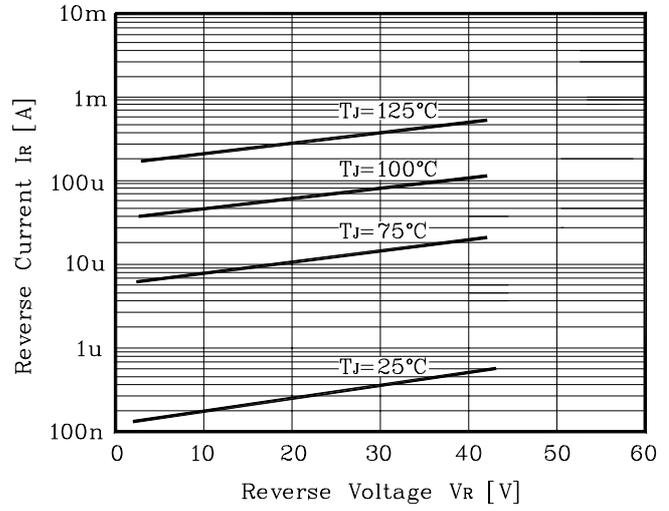
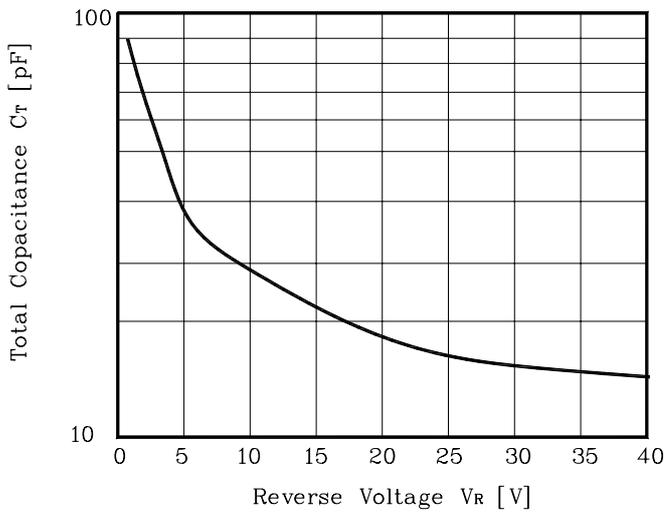


Fig. 3 Capacitance



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