

# SD103AX



## SD103AX Schottky Barrier Diode

### General description

Schottky Barrier Diode in a SOD-523 Plastic Package.

### FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Capacitance

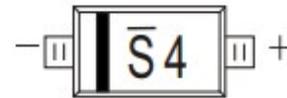
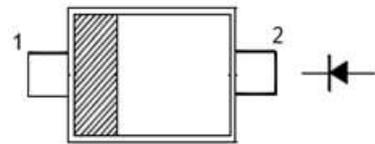
### APPLICATION

- Polarity Protection Diode
- Re-Circulating Diode
- Switching Diode

### MECHANICAL DATA

- Case: SOD-523

PIN	DESCRIPTION
1	Cathode
2	Anode



## Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	VRRM	40	V
Reverse Voltage	VR	40	V
Average Forward Rectified Current	IF(AV)	350	mA
Non-Repetitive Peak Forward Surge Current at t = 1 s	IFSM	2	A
Power Dissipation	Ptot	150	mW
Operating and Storage Temperature Range	Tj, Tstg	- 65 to + 125	OC
Thermal Resistance, Junction to Ambient Air	RθJA	667	°C/W

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at IR = 100uA	V( BR)R	40	--	--	V
Reverse Leakage Current at VR = 30V	IR	--	--	5	µA
Forward Voltage	VF	--	--	0.37	V
				0.6	
Total Capacitance at VR = 0 V, f = 1 MHz	CT	--	50	--	pF
Reverse Recovery Time at IF = IR = 200 mA, Irr = 0.1 IR, RL = 100 Ω	trr	--	10	--	ns



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## Electrical Characteristic Curve

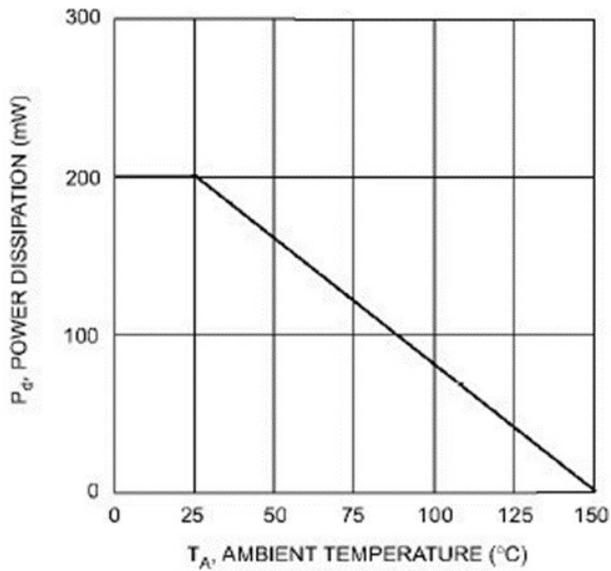


Fig. 1 Power Derating Curve

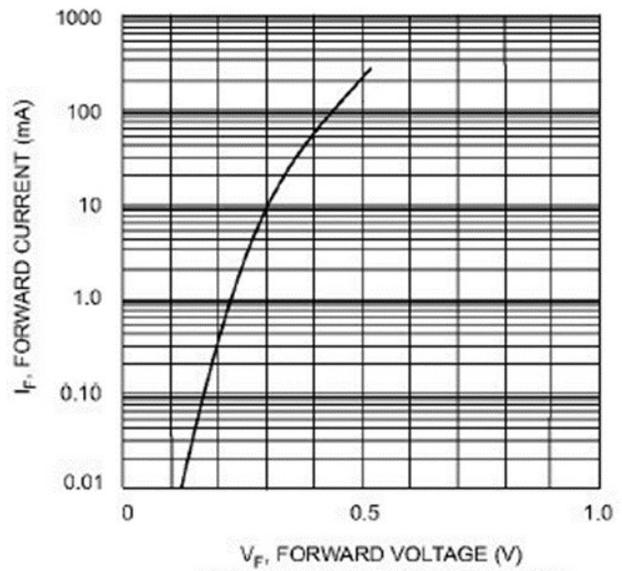


Fig. 2 Typical Forward Characteristics

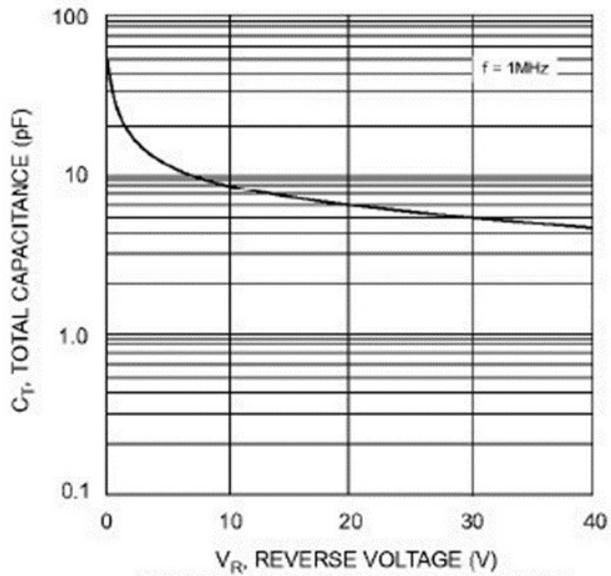


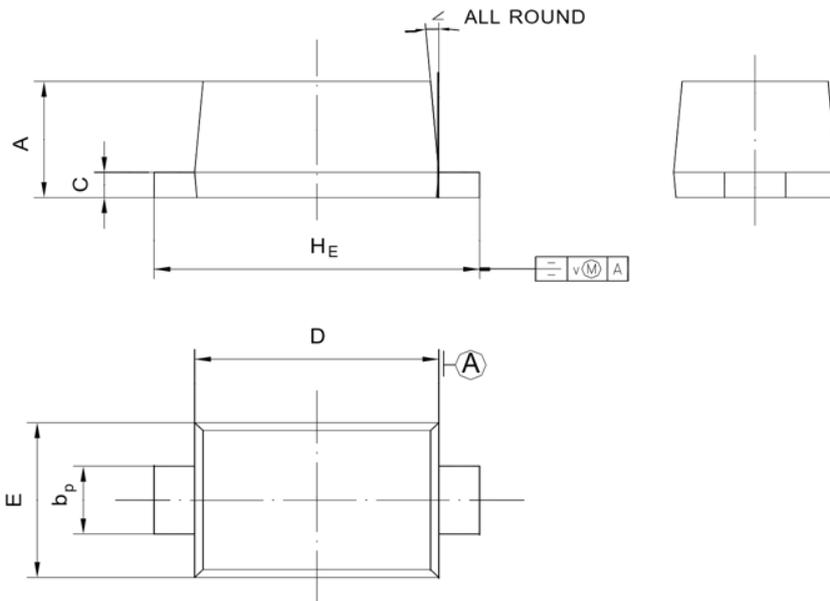
Fig. 3 Total Capacitance vs Reverse Voltage

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## Package Dimensions: SOD-523

Plastic surface mounted package; 2 leads



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°



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