



Surface Mount Schottky Barrier Diodes

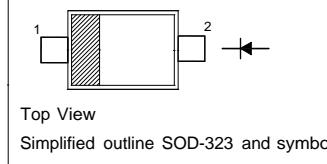
Features

- Low Forward Voltage

Marking: **SD103AWS S4**
SD103BWS S5
SD103CWS S6

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage SD103AWS SD103BWS SD103CWS	V_{RRM}	40	V
		30	
		20	
Reverse Voltage SD103AWS SD103BWS SD103CWS	V_R	40	V
		30	
		20	
Average Forward Rectified Current	$I_{F(AV)}$	350	mA
Non-Repetitive Peak Forward Surge Current at $t = 1 \text{ s}$	I_{FSM}	2	A
Power Dissipation	P_{tot}	200	mW
Operating and Storage Temperature Range	T_j, T_{stg}	- 65 to + 125	°C

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 10 \mu\text{A}$ SD103AWS SD103BWS SD103CWS	$V_{(BR)R}$	40	-	-	V
		30	-	-	
		20	-	-	
Reverse Leakage Current at $V_R = 30 \text{ V}$ at $V_R = 20 \text{ V}$ at $V_R = 10 \text{ V}$ SD103AWS SD103BWS SD103CWS	I_R	-	-	5	μA
		-	-	5	
		-	-	5	
Forward Voltage at $I_F = 20 \text{ mA}$ at $I_F = 200 \text{ mA}$ SD103AWS SD103BWS SD103CWS	V_F	-	-	0.37	V
		-	-	0.6	
Total Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_T	-	50	-	pF
Reverse Recovery Time at $I_F = I_R = 200 \text{ mA}$, $I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$	t_{rr}	-	10	-	ns

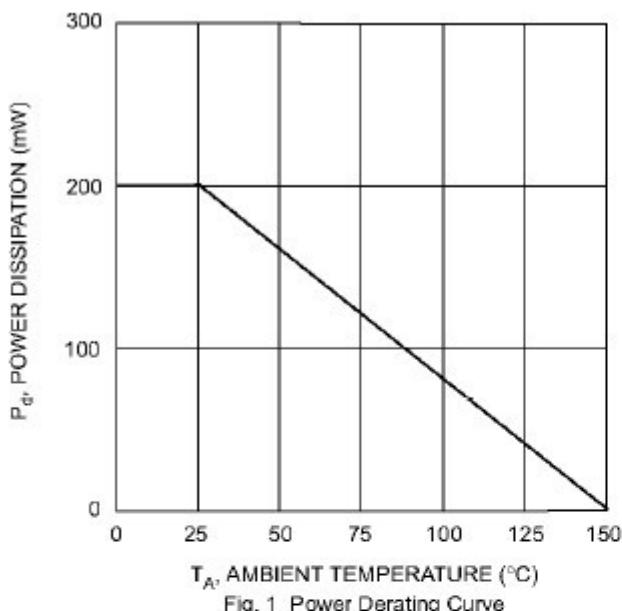


Fig. 1 Power Derating Curve

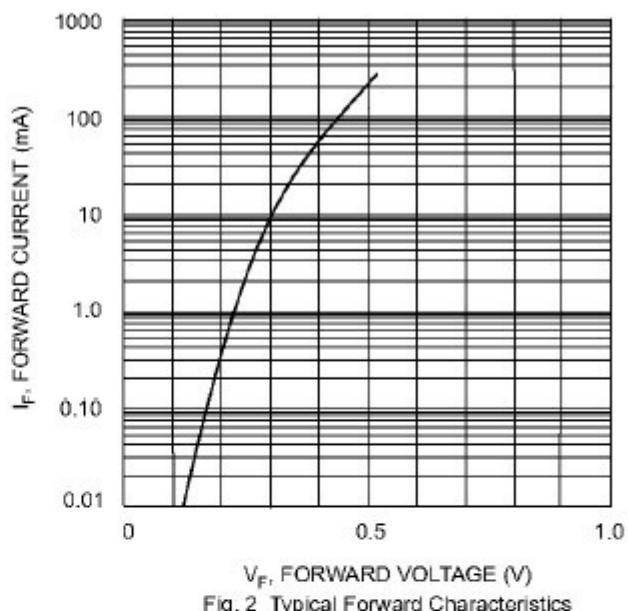


Fig. 2 Typical Forward Characteristics

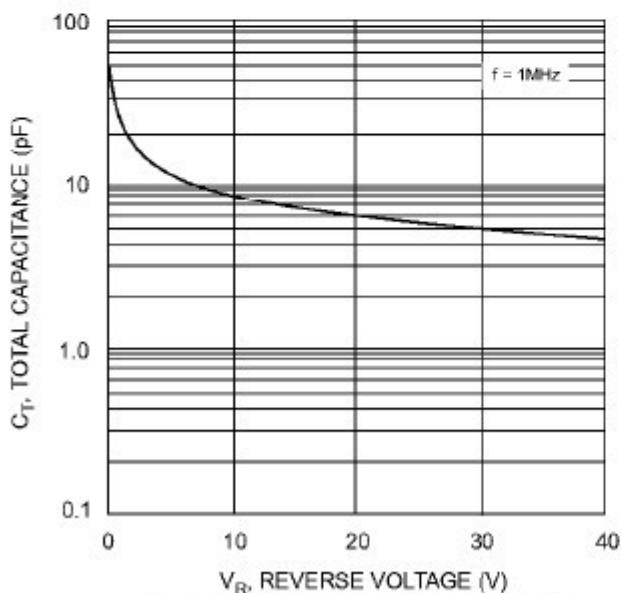


Fig. 3 Total Capacitance vs Reverse Voltage

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

