SD103AWS THRU SD103CWS

Surface Mount Schottky Barrier Diodes

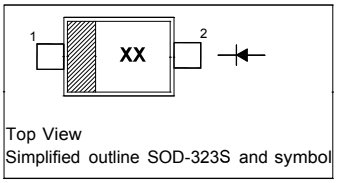
Features

• Low Forward Voltage

Type No.	Marking
SD103AW	S4
SD103BW	S5
SD103CW	S6

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Simplified outline SOD-323S and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit
Peak Repetitive Reverse Voltage	SD103AWS SD103BWS SD103CWS	V_{RRM}	40 30 20	V
Reverse Voltage	SD103AWS SD103BWS SD103CWS	V_R	40 30 20	V
Average Forward Rectified Current		$I_{F(AV)}$	350	mA
Non-Repetitive Peak Forward Surge Current at t = 1 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 °C

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

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Typical Characteristics

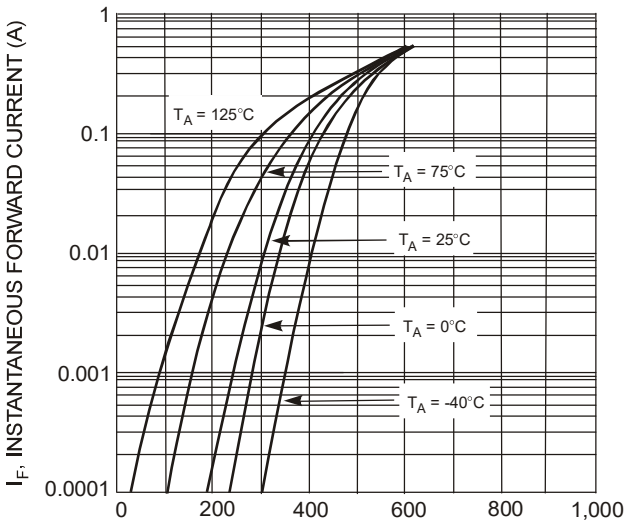


Fig. 1 Typical Forward Characteristics

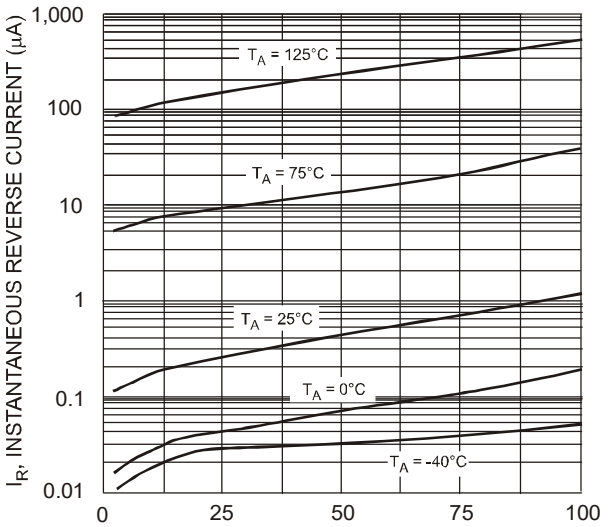


Fig. 2 Typical Reverse Characteristics

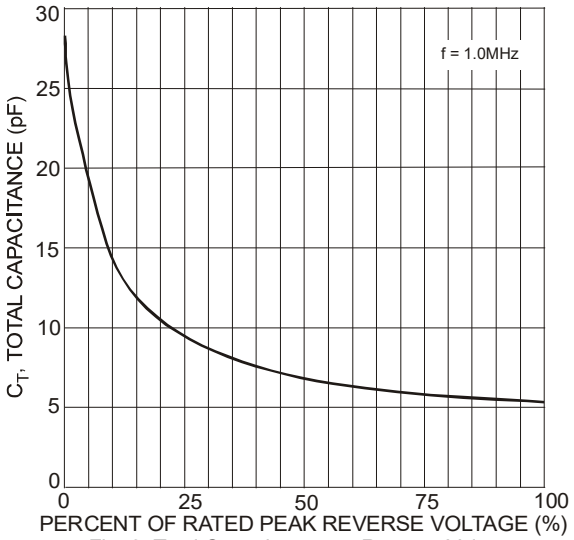


Fig. 3 Total Capacitance vs. Reverse Voltage

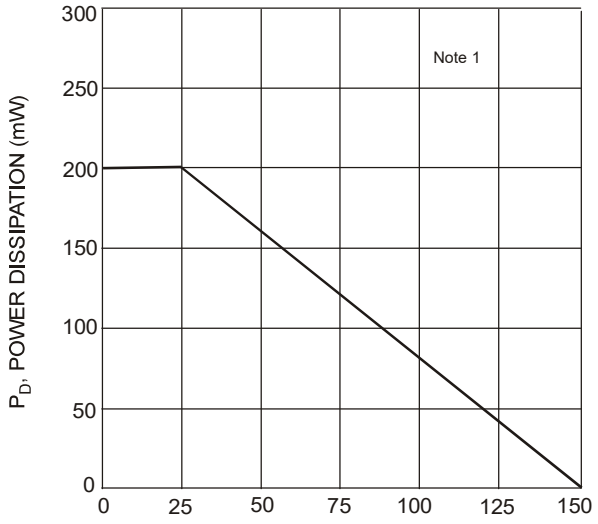
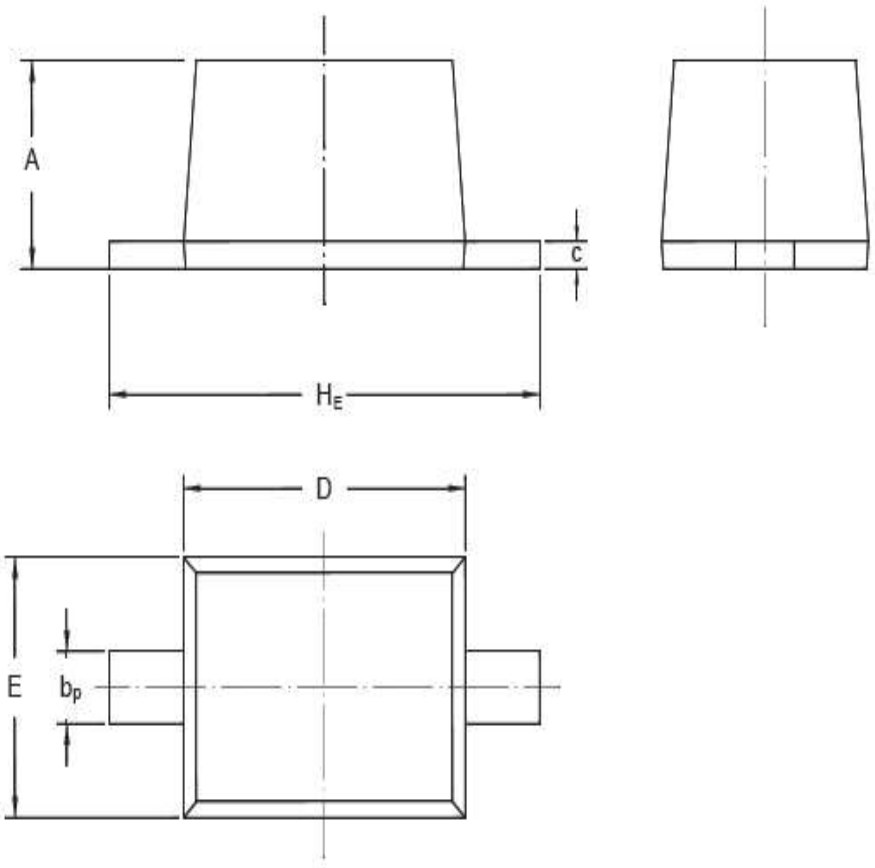


Fig. 4 Power Derating Curve

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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-323S**



UNIT	A	b_p	C	D	E	H_E
mm	1.10 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30

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