



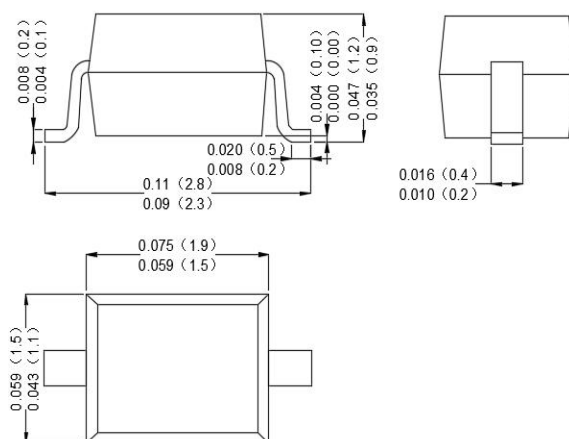
SD103AWS THRU SD103CWS

Surface Mount Schottky Barrier Diodes

Features

- Low Forward Voltage

SOD-323



Mechanical Data

- Case: Molded Plastic, SOD-323
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026
- Mounting Position : Any.
- Marking: SD103AWS:S4 SD103BWS:S5 SD103CWS:S6

Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

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

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 10 \mu A$	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, $t_{rr} = 0.1 I_R$, $R_L = 100 \Omega$	t_{rr}	-	10	-	ns



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Rating And Characteristic Curves

Fig. 1 Typical Forward Characteristics

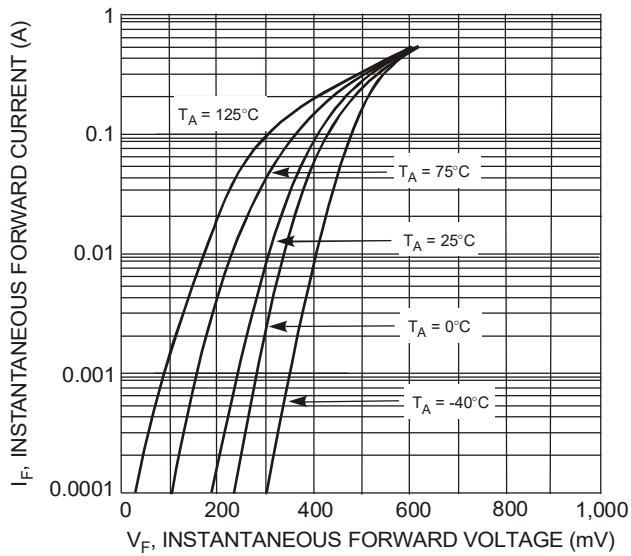


Fig. 2 Typical Reverse Characteristics

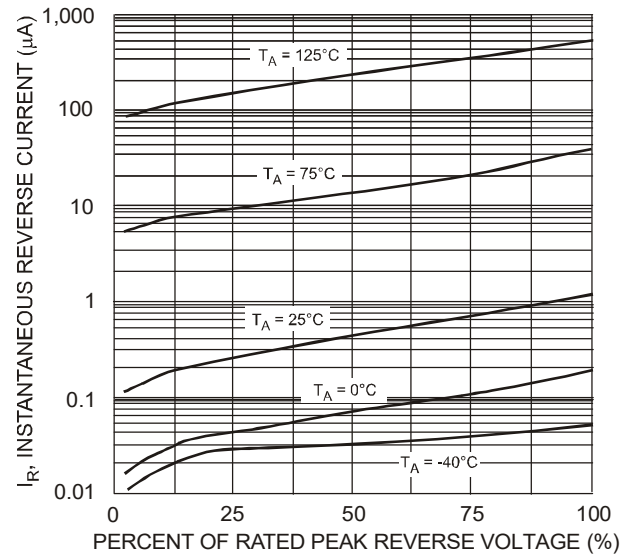


Fig. 3 Total Capacitance vs. Reverse Voltage

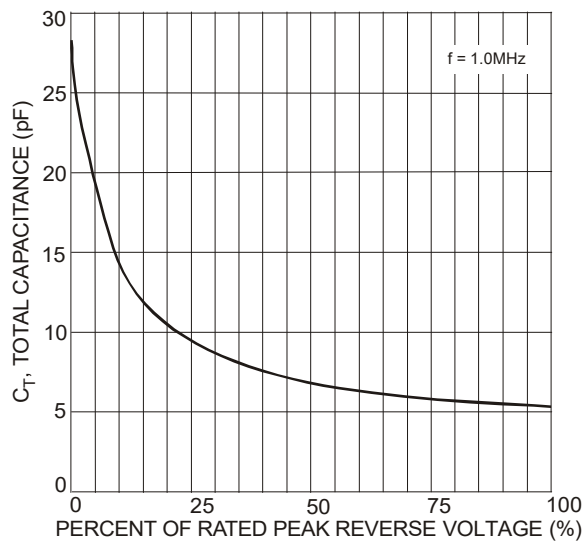
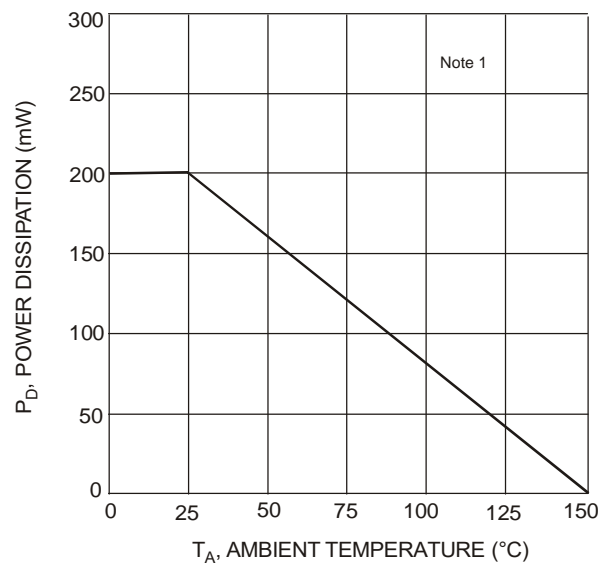


Fig. 4 Power Derating Curve





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