



SD103AWS thru SD103CWS

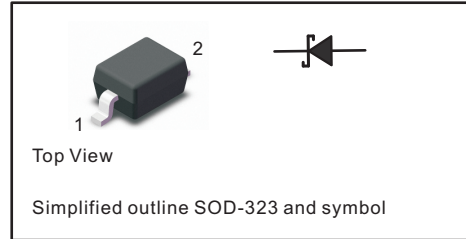
Surface Mount Schottky Barrier Diode

Features

- Low Capacitance
- Low Forward Voltage

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}	SD103AWS SD103BWS SD103CWS	40 30 20	V
Reverse Voltage		SD103AWS SD103BWS SD103CWS	40 30 20	V
Average Forward Rectified Current		$I_{F(AV)}$	350	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	13	A	
Power Dissipation	P_{tot}	200	mW	
Junction Temperature Range	T_J	125	°C	
Storage Temperature Range	T_{STG}	- 55 to + 150	°C	

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	
Reverse Breakdown Voltage at $I_R = 100 \mu A$	V_{BR}	SD103AWS SD103BWS SD103CWS	40 30 20	- - -	V	
Reverse Leakage Current at $V_R = 30 V$		I_R	SD103AWS	-	5	μA
at $V_R = 20 V$			SD103BWS	-	5	
at $V_R = 10 V$	SD103CWS		-	5		
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 $I_F = I_R = 200 mA, I_{rr} = 0.1 I_R, R_L = 100 \Omega$	t_{rr}	-	10	-	ns	



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Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

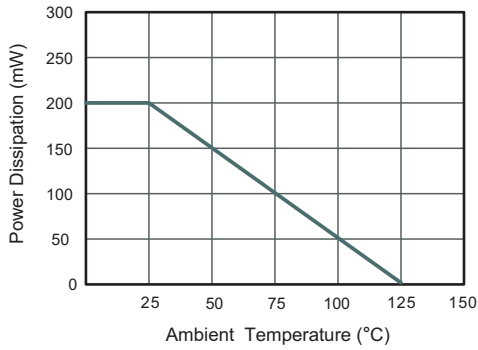


Fig.2 Typical Reverse Characteristics

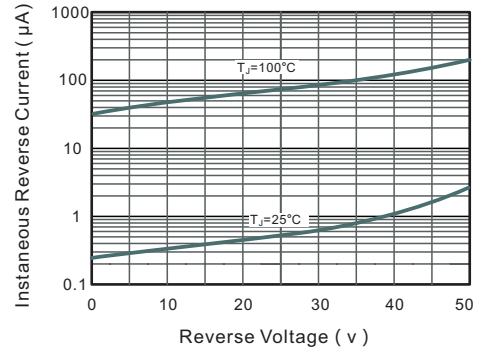


Fig.3 Forward Characteristics

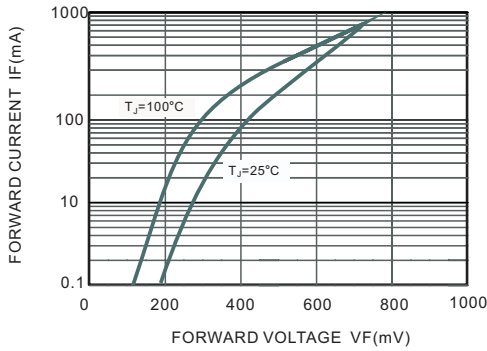


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

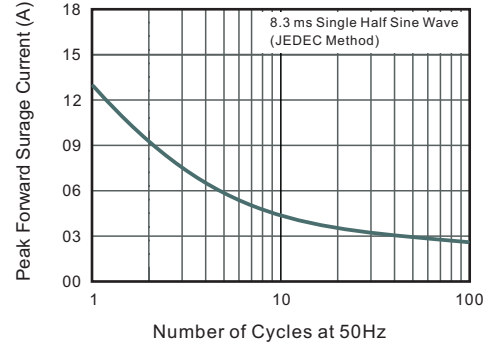


Fig.5 Typical Junction Capacitance

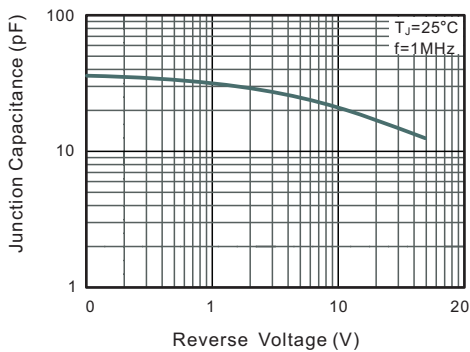
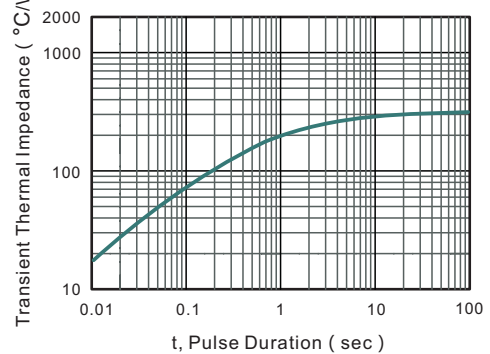


Fig.6 Typical Transient Thermal Impedance



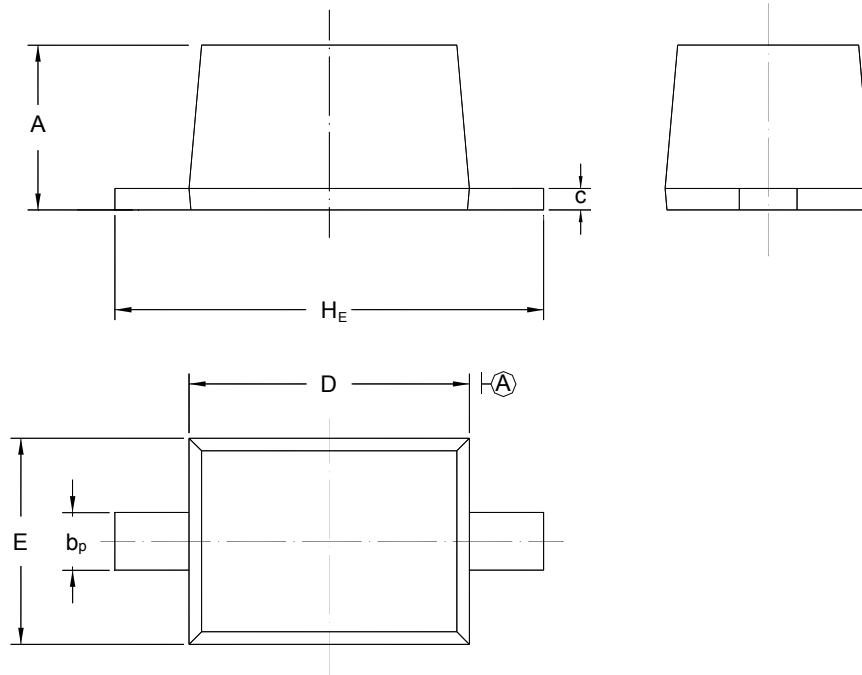


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Package Outline

SOD-323



UNIT	A	b_p	C	D	E	H_E
mm	1.10 0.80	0.40 0.25	0.15 0.08	1.80 1.40	1.40 1.20	2.75 2.55