

# SD101AWS...SD101CWS

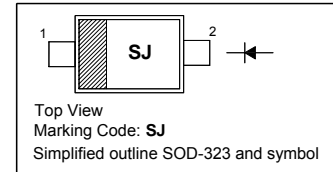
## Surface Mount Schottky Barrier Diodes

### Features

- Low forward voltage
- Low reverse capacitance

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

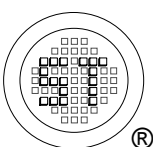


### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	60 50 40	V
Reverse Voltage	$V_R$	60 50 40	V
Forward Continuous Current	$I_{FM}$	15	mA
Power Dissipation	$P_d$	200	mW
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	50 2	mA A
Operating and Storage Temperature Range	$T_j, T_{stg}$	- 65 to + 125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 10\text{ }\mu\text{A}$	$V_{(BR)R}$	60 50 40	- - -	V
Forward Voltage at $I_F = 1\text{ mA}$	$V_F$	-	0.41	V
at $I_F = 15\text{ mA}$		-	0.4	
		-	0.39	
		-	1	
		-	0.95	
		-	0.9	
Reverse Current at $V_R = 50\text{ V}$ at $V_R = 40\text{ V}$ at $V_R = 30\text{ V}$	$I_R$	- - -	200 200 200	nA
Total Capacitance at $V_R = 0\text{ V}, f = 1\text{ MHz}$	$C_T$	- - -	2 2.1 2.2	pF
Reverse Recovery Time at $I_F = I_R = 5\text{ mA}, I_{rr} = 0.1X I_R, R_L = 100\text{ }\Omega$	$t_{rr}$	-	1	ns



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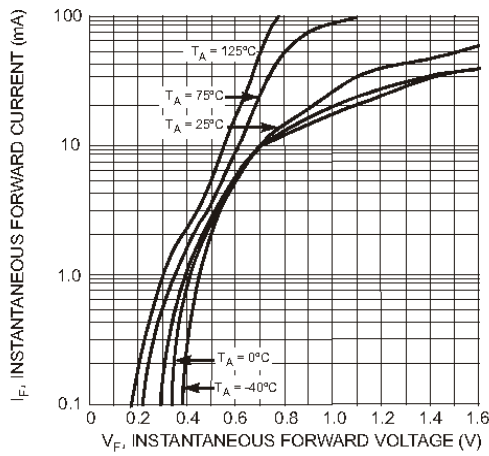


Fig. 1 Typical Forward Characteristics

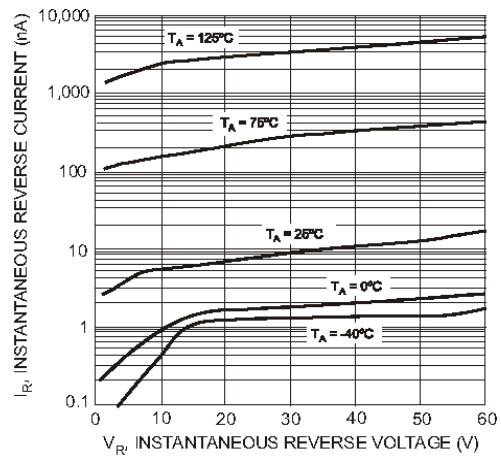


Fig. 2 Typical Reverse Characteristics

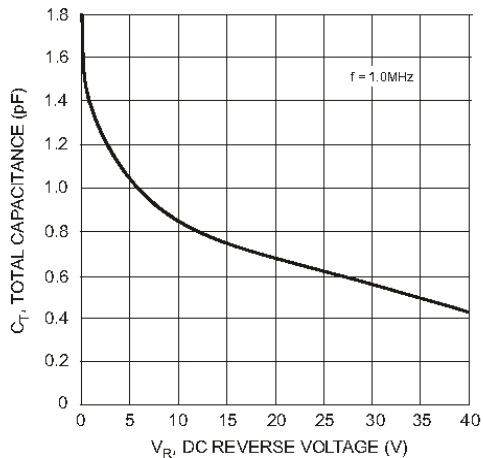


Fig. 3 Total Capacitance vs. Reverse Voltage

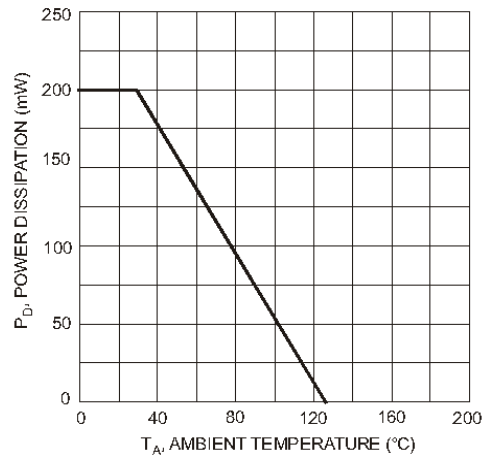
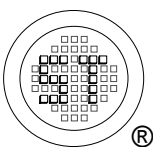


Fig. 4 Power Derating Curve



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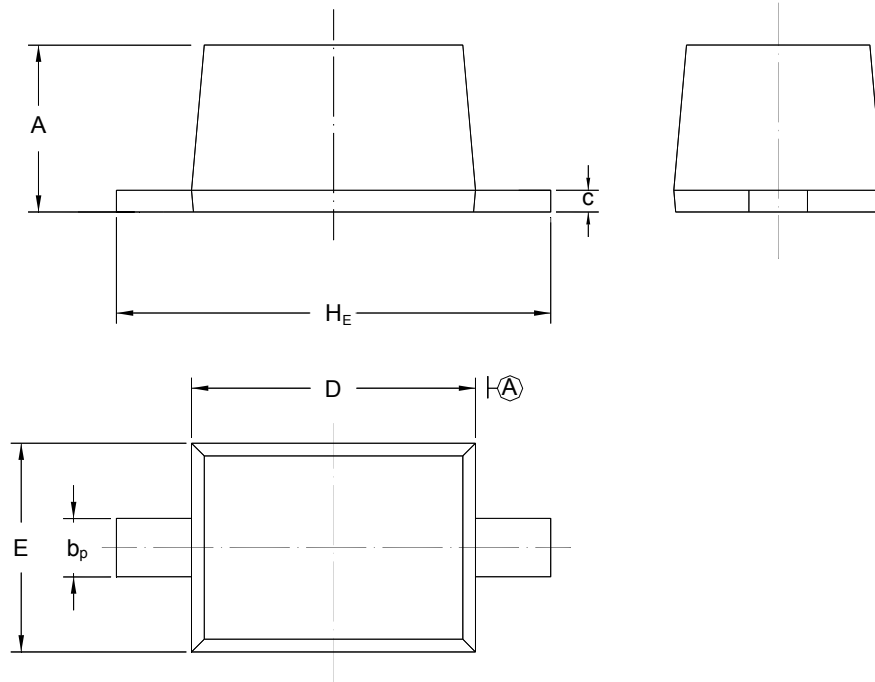
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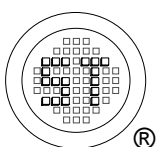
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>
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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