

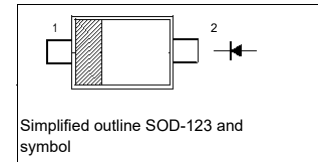
SD101AW...SD101CW Surface Mount Schottky Barrier Diodes

Features

- Low forward voltage
- Low reverse capacitance

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



INFORMATION

Type No.	Marking
SD101AW	S1
SD101BW	S2
SD101CW	S3

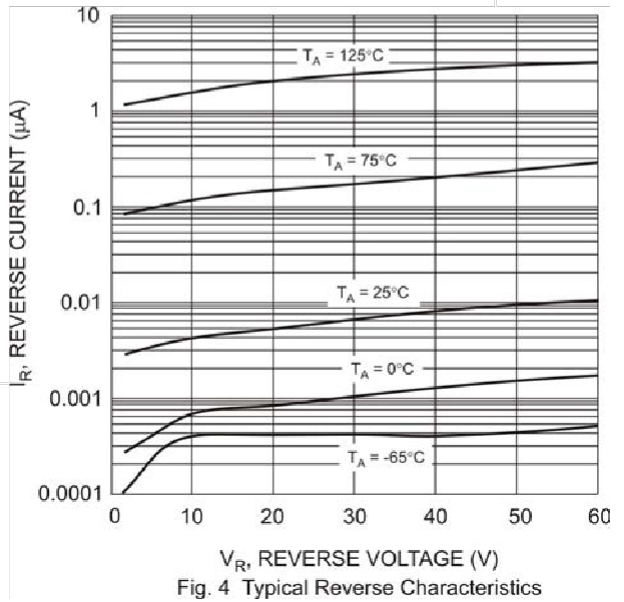
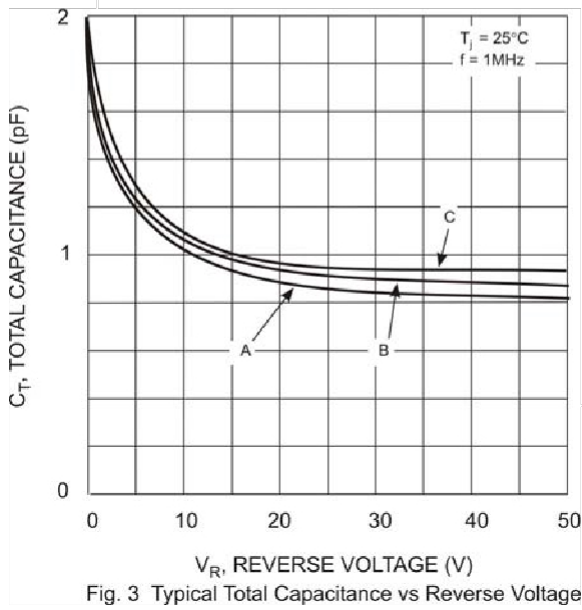
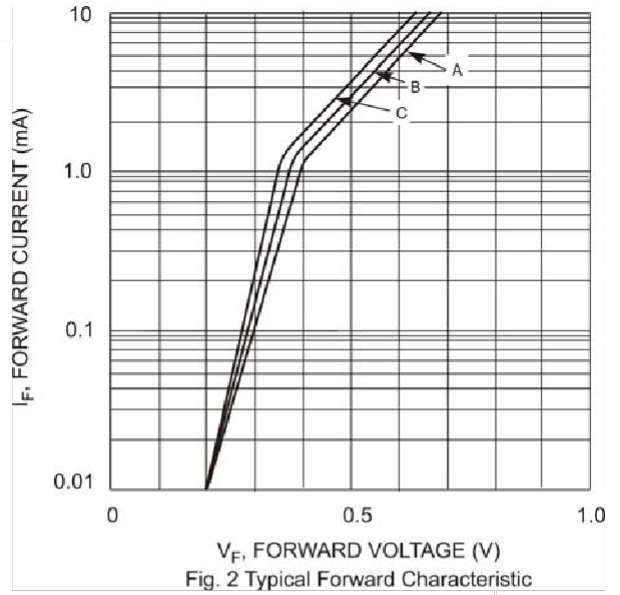
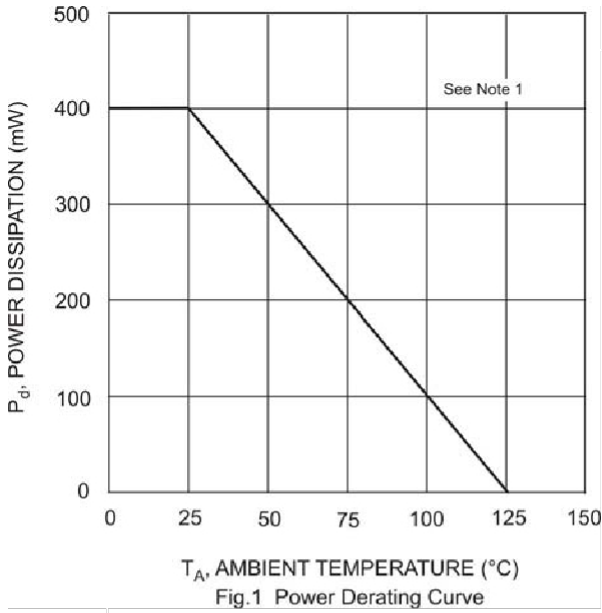
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	SD101AW SD101BW SD101CW	V_{RRM}	60 50 40	V
Reverse Voltage	SD101AW SD101BW SD101CW	V_R	60 50 40	V
Forward Continuous Current		I_{FM}	15	mA
Power Dissipation		P_d	400	mW
Non-Repetitive Peak Forward Surge Current	at $t = 1\text{ s}$ at $t = 10\ \mu\text{s}$	I_{FSM}	50 2	mA A
Operating and Storage Temperature Range		T_j, T_{stg}	- 65 to + 125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit	
Reverse Breakdown Voltage at $I_R = 10\ \mu\text{A}$	SD101AW SD101BW SD101CW	$V_{(BR)R}$	60 50 40	- - -	V
Forward Voltage at $I_F = 1\text{ mA}$	SD101AW SD101BW SD101CW	V_F	- - -	0.41 0.4 0.39	V
at $I_F = 15\text{ mA}$	SD101AW SD101BW SD101CW	V_F	- - -	1 0.95 0.9	V
Reverse Current at $V_R = 50\text{ V}$ at $V_R = 40\text{ V}$ at $V_R = 30\text{ V}$	SD101AW SD101BW SD101CW	I_R	- - -	200 200 200	nA
Total Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	SD101AW SD101BW SD101CW	C_T	- - -	2 2.1 2.2	pF
Reverse Recovery Time at $I_F = I_R = 5\text{ mA}$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\ \Omega$		t_{rr}	-	1	ns

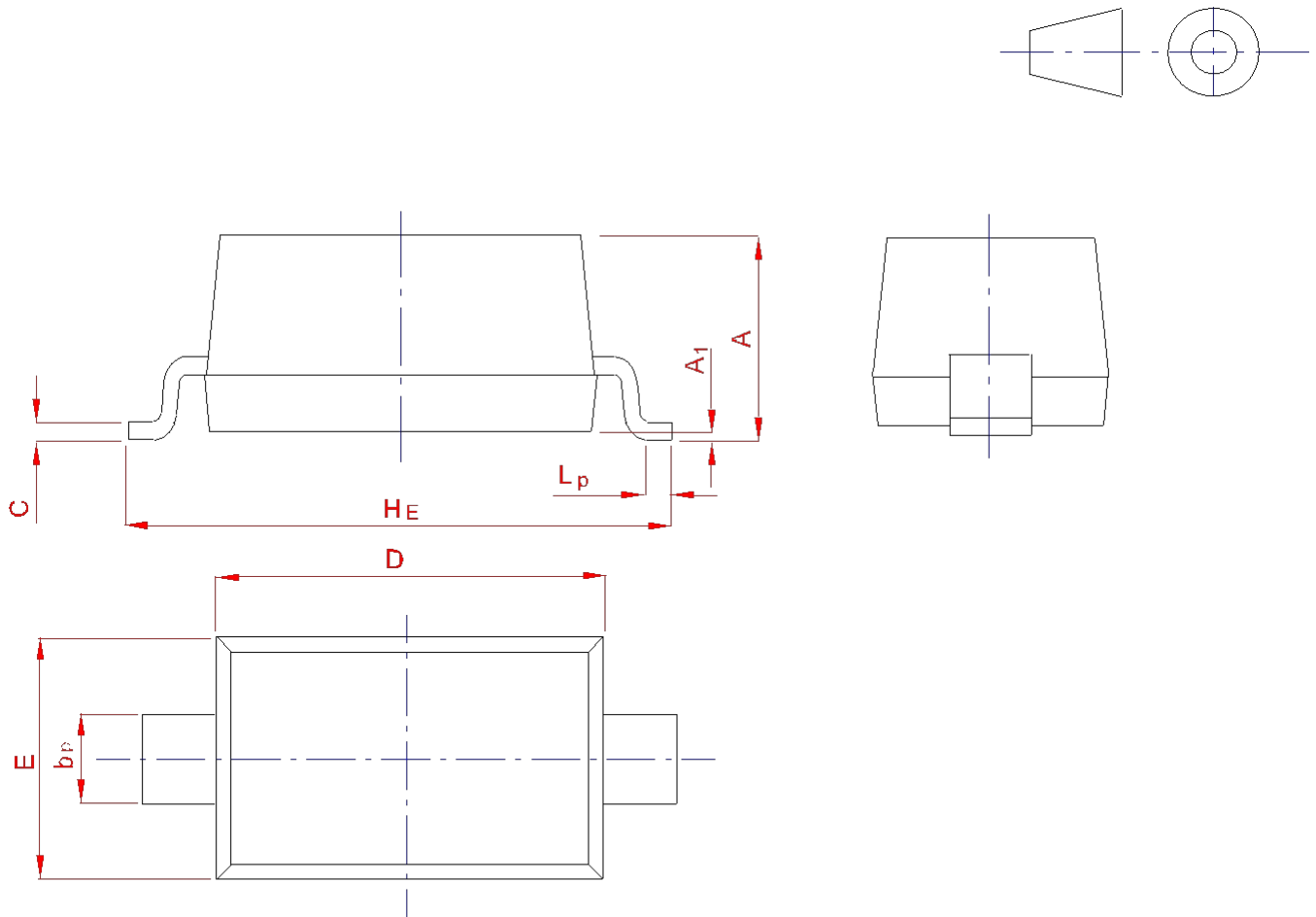
TYPICAL CHARACTERISTICS @ $T_a=25^{\circ}\text{C}$ unless otherwise specified



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.20	0.60	0.135	2.75	1.65	3.85	0.10	0.50
	0.90	0.50	0.100	2.55	1.55	3.55	0.01	0.20