

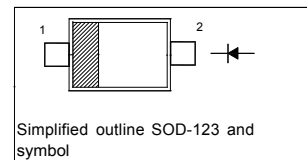
## SD101AW...SD101CW Surface Mount Schottky Barrier Diodes

### Features

- Low forward voltage
- Low reverse capacitance

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### INFORMATION

Type No.	Marking
SD101AW	S1
SD101BW	S2
SD101CW	S3

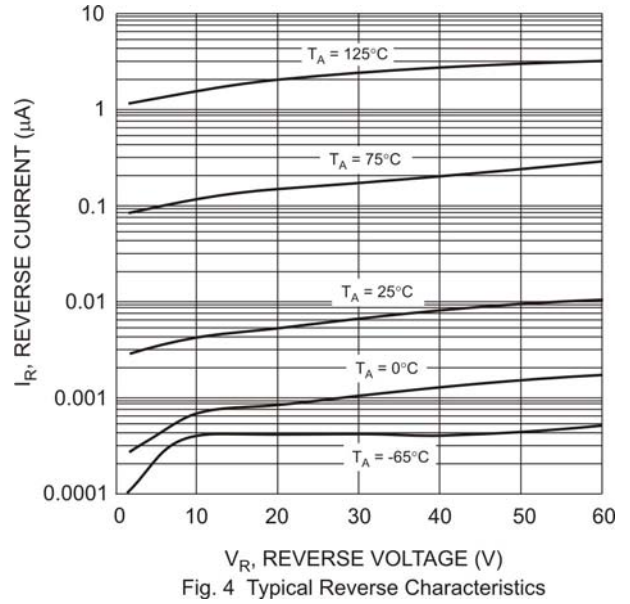
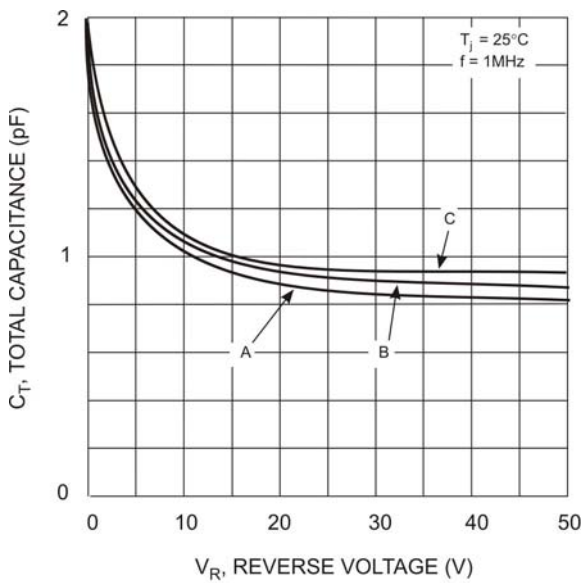
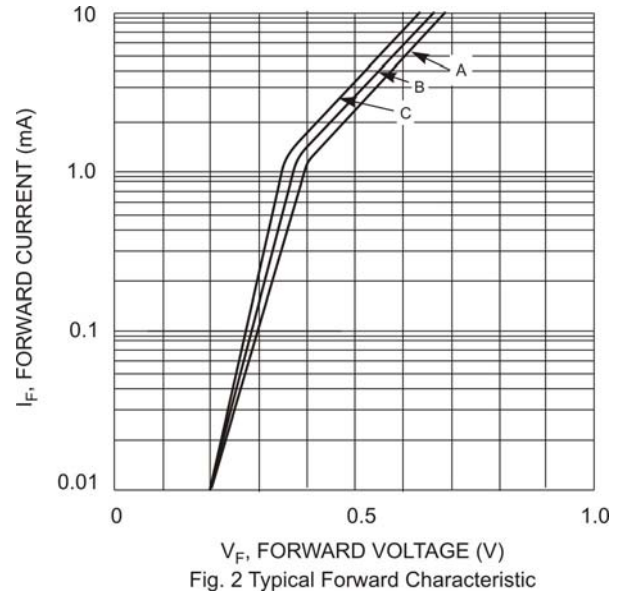
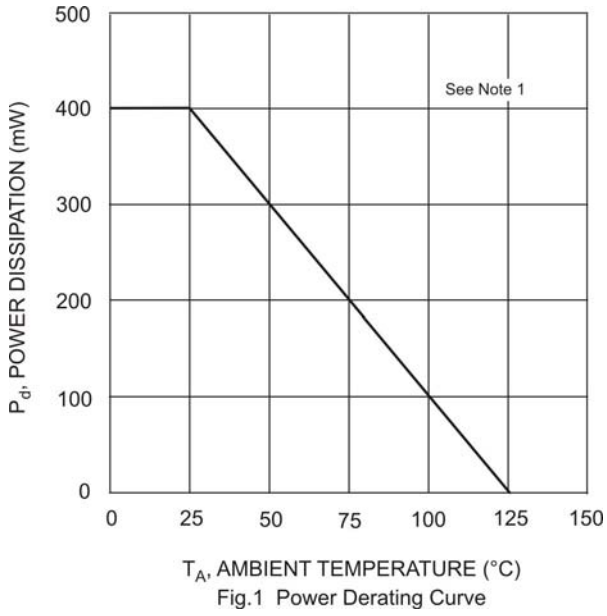
### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

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 $t = 10\text{ }\mu\text{s}$	$I_{FSM}$	50 2	mA A
Operating and Storage Temperature Range		$T_j, T_{stg}$	- 65 to + 125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit	
Reverse Breakdown Voltage at $I_R = 10\text{ }\mu\text{A}$	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		- - -	1 0.95 0.9	
Reverse Current at $V_R = 50\text{ V}$ at $V_R = 40\text{ V}$ at $V_R = 30\text{ V}$	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 $I_F = I_R = 5\text{ mA}$ , $I_{rr} = 0.1X I_R$ , $R_L = 100\text{ }\Omega$		$t_{rr}$	-	1	ns

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



## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123

