Surface Mount Schottky Barrier Diodes

Features

- · Low forward voltage
- · Low reverse capacitance

PINNING PIN DESCRIPTION Cathode Anode Top View Marking Code: **SM** Simplified outline SOD-123 and symbol

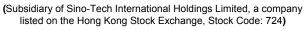
Absolute Maximum Ratings (T_a = 25 °C)

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 s at t = 10 µs	I _{FSM}	50 2	mA A
Operating and Storage Temperature Range		T_{j},T_{stg}	- 65 to + 125	°C

Characteristics at T_a = 25 °C

Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage					
at $I_R = 10 \mu A$	SD101AW	$V_{(BR)R}$	60	-	V
	SD101BW	▼ (BR)R	50	-	v
	SD101CW		40	-	
Forward Voltage					
at $I_F = 1 \text{ mA}$	SD101AW		-	0.41	
	SD101BW		-	0.4	
	SD101CW	V_{F}	-	0.39	V
at I _F = 15 mA	SD101AW		-	1	
	SD101BW		-	0.95	
	SD101CW		-	0.9	
Reverse Current					
at $V_R = 50 \text{ V}$	SD101AW		-	200	~ Λ
at V_R = 40 V	SD101BW	I_R	-	200	nA
at V _R = 30 V	SD101CW		-	200	
Total Capacitance					
at $V_R = 0$ V, $f = 1$ MHz	SD101AW	•	-	2	_
	SD101BW	C_T	-	2.1	pF
	SD101CW		-	2.2	
Reverse Recovery Time		t _{rr}	_	1	ns
at $I_F = I_R = 5 \text{ mA}$, $I_{rr} = 0.1 \text{X}$ I_{R_r} $R_L = 100 \Omega$		чr	_	'	115





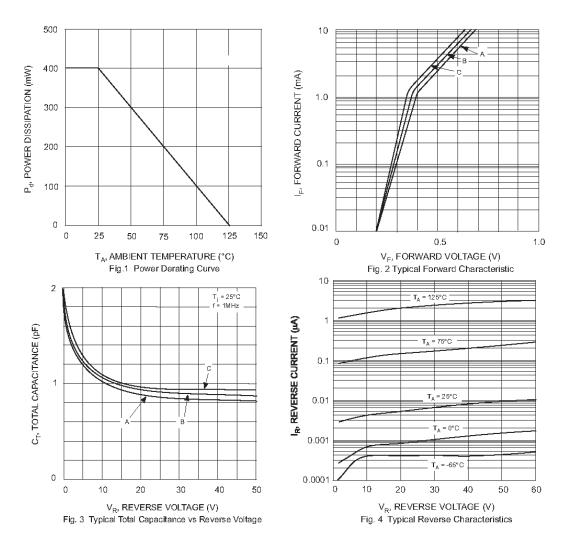




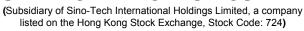






















PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123

