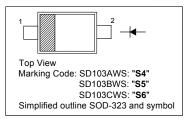
SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

Low Forward Voltage

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	SD103AWS		40		
	SD103BWS	V_{RRM}	30	V	
	SD103CWS		20		
Average Forward Rectified Current		I _{F(AV)}	350	mA	
Non-Repetitive Peak Forward Surge Current at t ≤ 1 s		I _{FSM}	2	А	
Power Dissipation		P _{tot}	200	mW	
Operating and Storage Temperature Range		T_j,T_s	- 65 to + 125	°C	

Characteristics at $T_a = 25$ °C

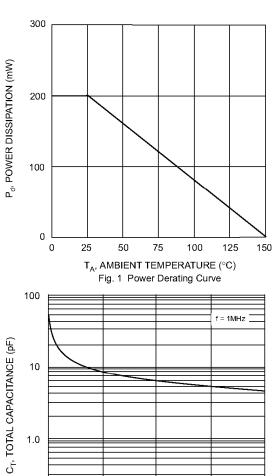
Parameter		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage						
at I _R = 10 μA	SD103AWS	\/	40	-	-	V
	SD103BWS	$V_{(BR)R}$	30	-	-	V
	SD103CWS		20	-	-	
Reverse Leakage Current						
at V _R = 30 V	SD103AWS		-	-	5	
at V _R = 20 V	SD103BWS	I _R	-	-	5	μA
at V _R = 10 V	SD103CWS		-	-	5	
Forward Voltage						
at I _F = 20 mA		V_{F}	-	-	0.37	V
at I _F = 200 mA			ı	-	0.6	
Total Capacitance at $V_R = 0 V$, $f = 1 MHz$		Ст	-	50	-	pF
Reverse Recovery Time at $I_F = I_R = 50$ mA to 200 mA , Recover to 0.1 I_R		t _{rr}	-	10	-	ns







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1000 I_F, FORWARD CURRENT (mA) 100 10 1.0 0.10 0.01 0 0.5 1.0 V_F, FORWARD VOLTAGE (V)

Fig. 2 Typical Forward Characteristics

1.0 0.1 0 40 V_R, REVERSE VOLTAGE (V)

Fig. 3 Total Capacitance vs Reverse Voltage









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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

