SD103AW…SD103CW   Surface Mount Schottky Barrier Diodes

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Top View
Marking Code: **S4**
Simplified outline SOD-123 and symbol

Features

• Low Forward Voltage
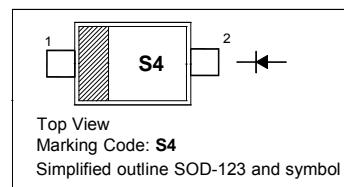
Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit
Peak Repetitive Reverse Voltage	SD103AW SD103BW SD103CW	V_{RRM}	40 30 20	V
Reverse Voltage	SD103AW SD103BW SD103CW	V_R	40 30 20	V
Average Forward Rectified Current		$I_{F(AV)}$	350	mA
Non-Repetitive Peak Forward Surge Current at t = 1 s		I_{FSM}	2	A
Power Dissipation		P_{tot}	400	mW
Operating and Storage Temperature Range		T_j, T_{stg}	- 65 to + 125	°C

Characteristics at T_a = 25 °C

| Parameter		Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at I_R = 10 µA	SD103AW SD103BW SD103CW	$V_{(BR)R}$	40 30 20	- - -	- - -	V
Reverse Leakage Current at V_R = 30 V at V_R = 20 V at V_R = 10 V	SD103AW SD103BW SD103CW	I_R	- - -	- - -	5 5 5	µA
Forward Voltage at I_F = 20 mA at I_F = 200 mA		V_F	- -	- -	0.37 0.6	V
Total Capacitance at V_R = 0 V, f = 1 MHz		C_T	-	50	-	pF
Reverse Recovery Time at I_F = I_R = 200 mA, I_{rr} = 0.1 I_R, R_L = 100 Ω		t_{rr}	-	10	-	ns

Fig.1 Power Derating Curve


Fig. 2 Typical Forward Characteristics

Fig. 3 Typical Reverse Characteristics

Fig. 4 Typ. Total Capacitance vs. Reverse Voltage
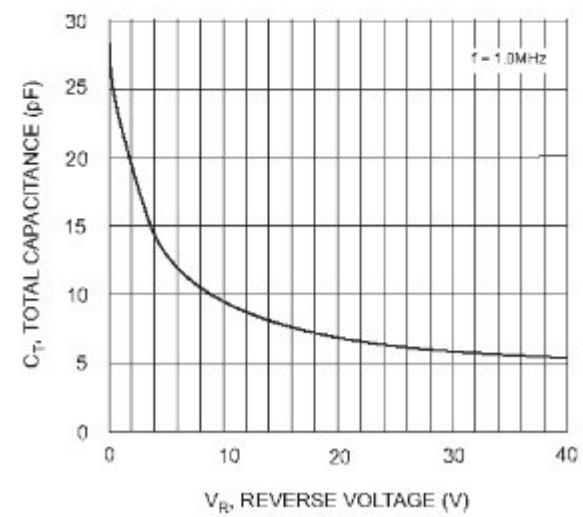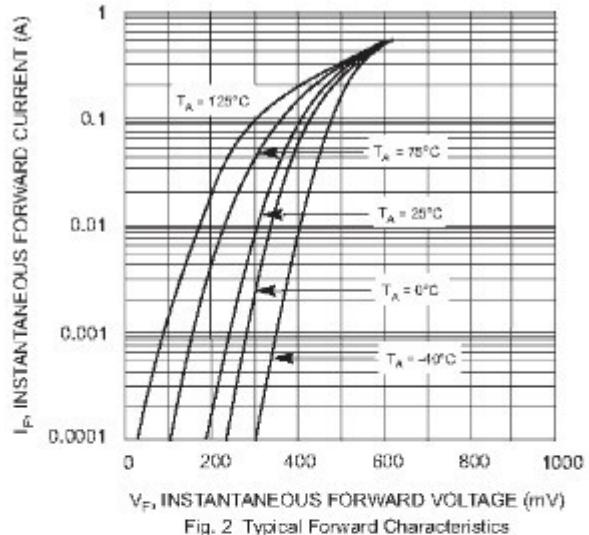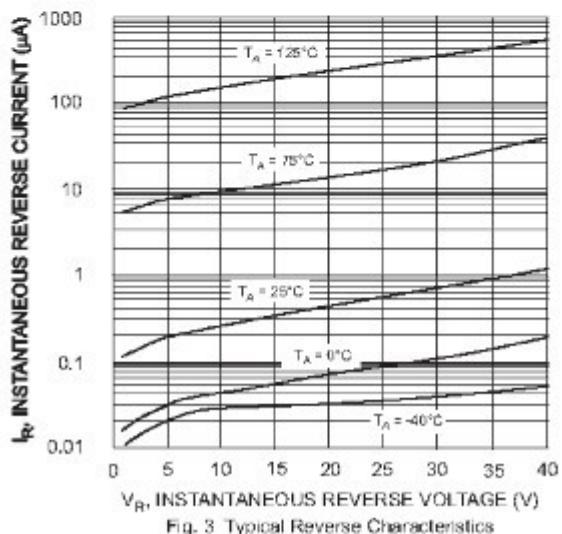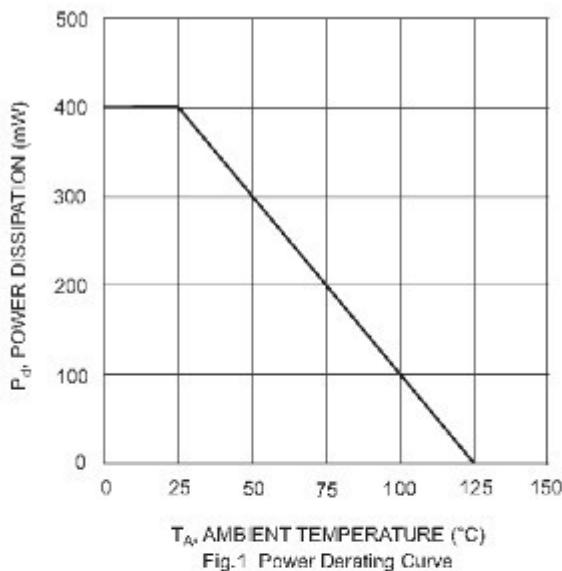
ACKAGE OUTLINE

Plastic surface mounted package; 2 leads   **SOD-123**
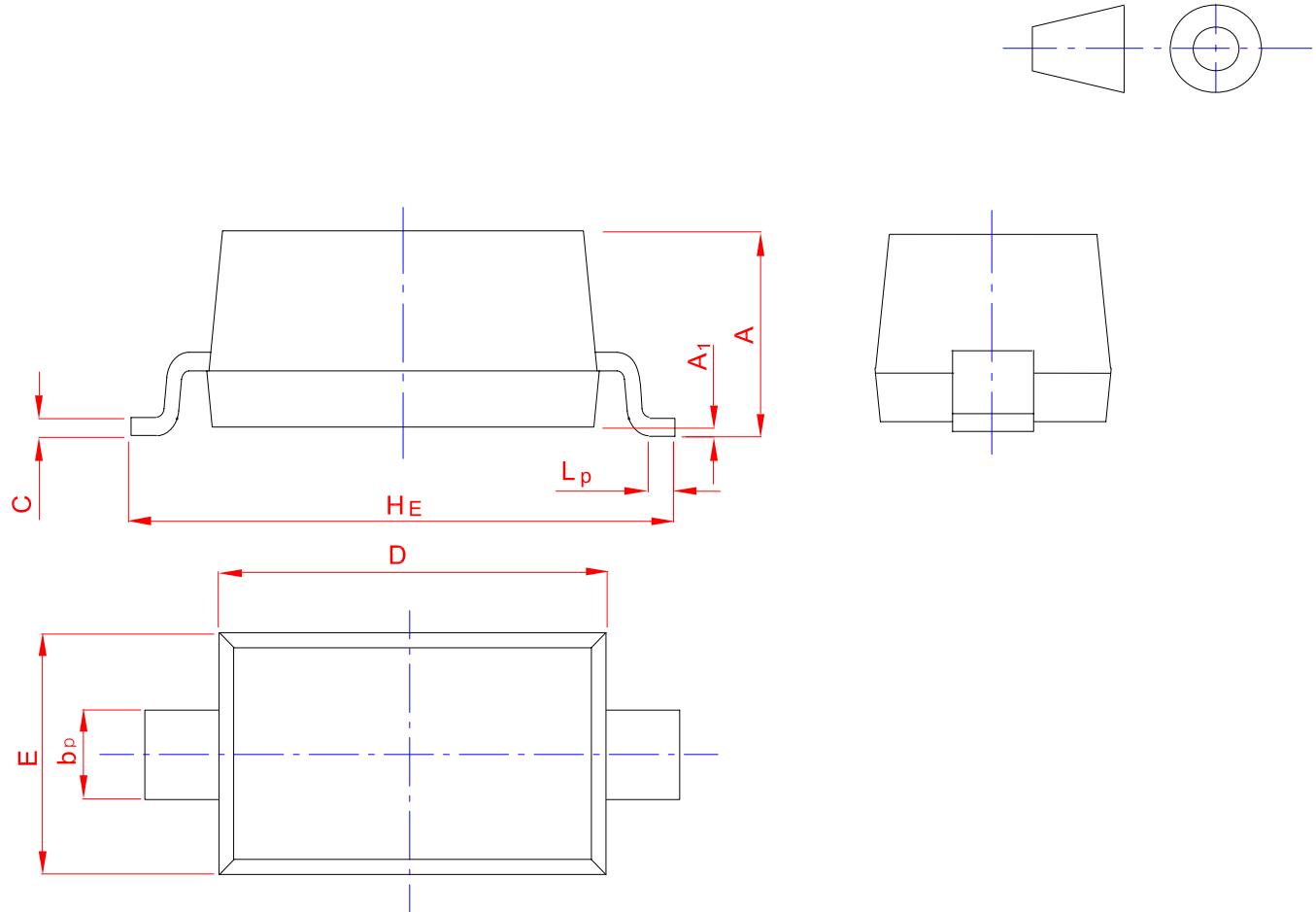
UNIT	A	b$_p$	C	D	E	H$_E$	A$_1$	L$_p$
mm	1.20 0.90	0.60 0.50	0.135 0.100	2.75 2.55	1.65 1.55	3.85 3.55	0.10 0.01	0.50 0.20

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