

SD103AW/BW/CW

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 20 to 40 Volt **CURRENT** 0.35 Ampere

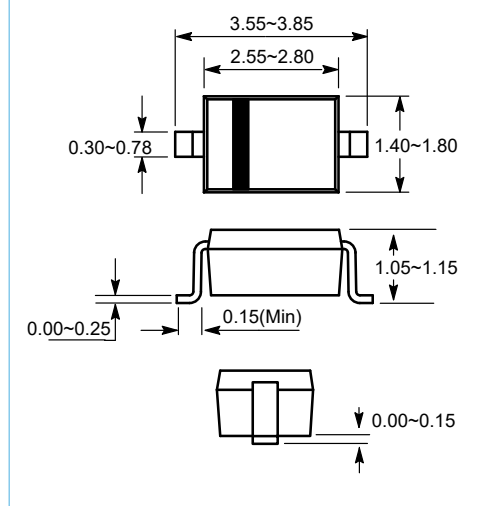
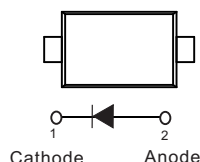
SOD-123 Unit:mm

FEATURES

- Low Forward Voltage Drop
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS
- Marking code: SD103AW: S4 ,SD103BW: S5 , SD103CW: S6

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

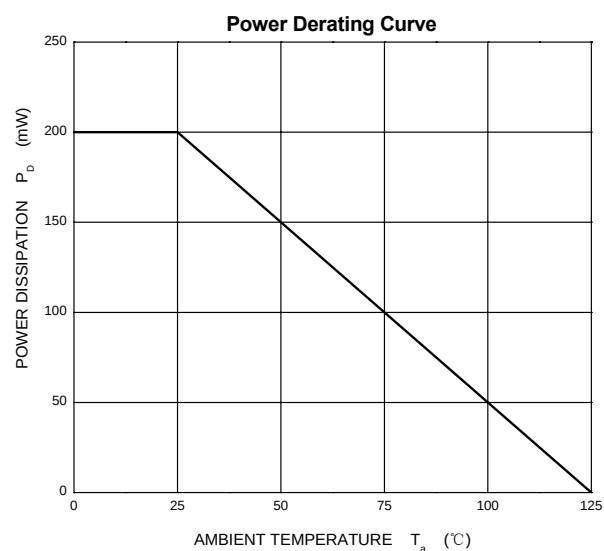
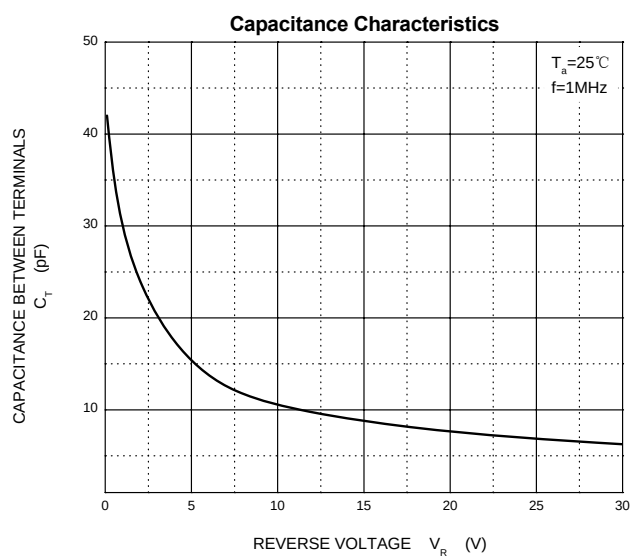
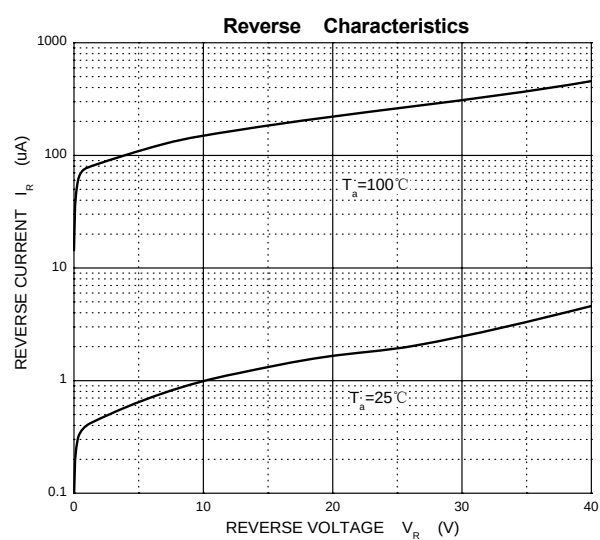
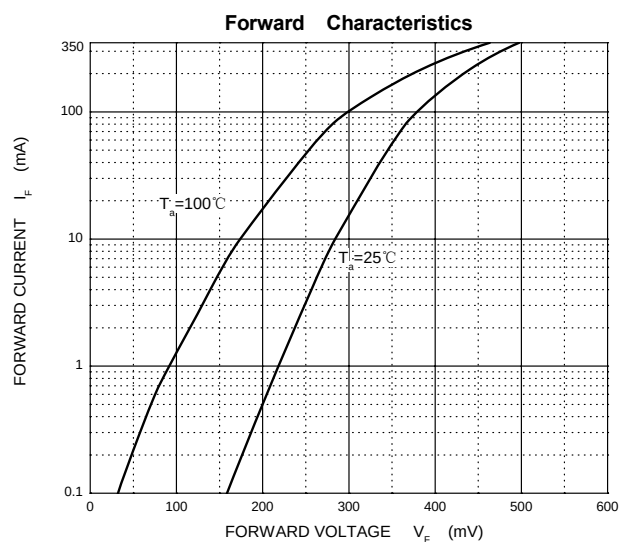
Parameter	Symbol	SD103AW	SD103BW	SD103CW	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}	40	30	20	V
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_{FM}	350			mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2.0			A
Power Dissipation	P_d	200			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			$^{\circ}\text{C/W}$
Junction Temperature	T_j	125			$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~+150			$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)}$					
SD103AW		($I_R = 100 \mu\text{A}$)	40			V
SD103BW		($I_R = 100 \mu\text{A}$)	30			
SD103CW		($I_R = 100 \mu\text{A}$)	20			
Reverse Leakage	I_R				5	μA
SD103AW		($V_R = 30 \text{ V}$)				
SD103BW		($V_R = 20 \text{ V}$)				
SD103CW		($V_R = 10 \text{ V}$)				
Forward Voltage	V_F	($I_F = 20 \text{ mA}$)			0.37	V
		($I_F = 200 \text{ mA}$)			0.60	
Total Capacitance	C_T	($V_R = 0 \text{ V}$, $f = 1.0 \text{ MHz}$)			50	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 200 \text{ mA}$, $I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$		10		ns

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Typical Characteristics

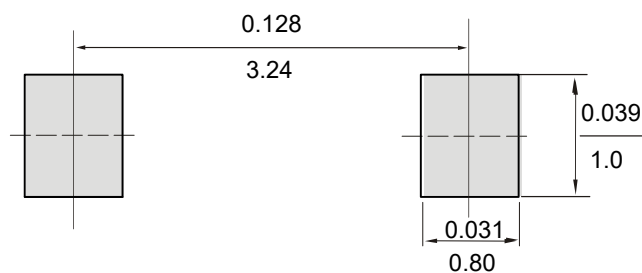


SD103AW/BW/CW

MOUNTING PAD LAYOUT

SOD-123

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SD103AW/BW/CW	SOD-123	7 Inch	3000