

SD103AWS/BWS/CWS

SURFACE MOUNT SCHOTTKY BARRIER

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

SOD-323

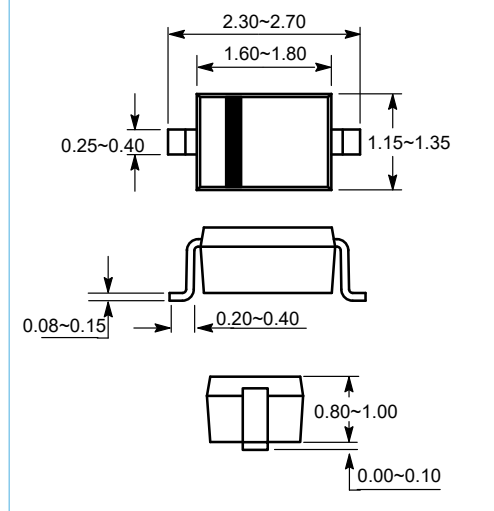
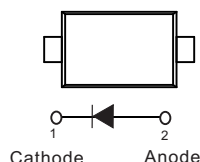
Unit:mm

FEATURES

- Low Forward Voltage Drop
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS
- Marking code: SD103AWS: S4 ,SD103BWS: S5 , SD103CWS: S6

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

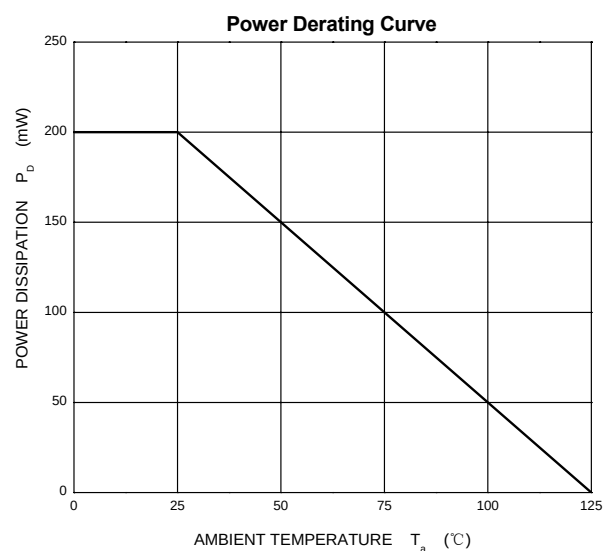
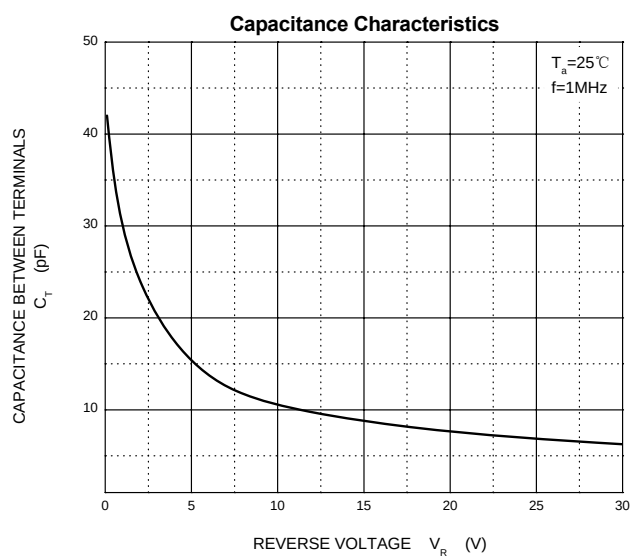
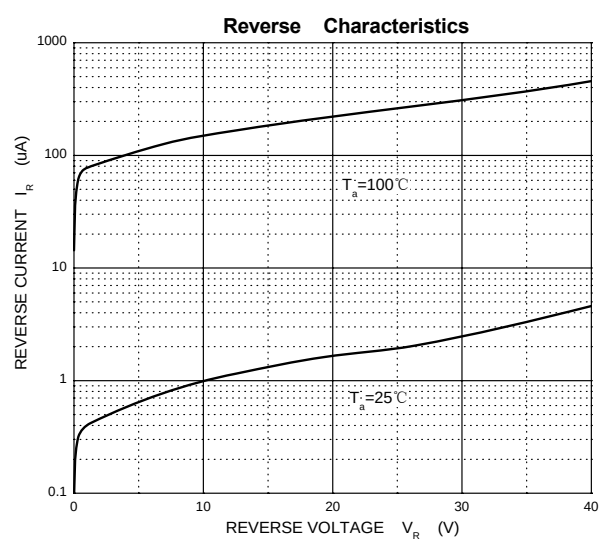
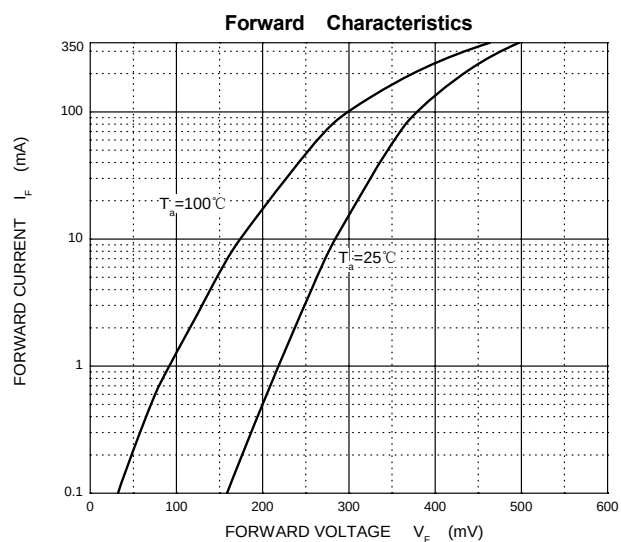
Parameter	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	40	30	20	V
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	28	21	14	V
Forward Continuous Current	I _{FM}	350			mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0			A
Power Dissipation	P _d	200			mW
Thermal Resistance Junction to Ambient	R _{θJA}	500			°C/W
Junction Temperature	T _j	125			°C
Storage Temperature	T _{STG}	-55~+150			°C

ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V _(BR)	(I _R = 100 μA)	40			V
SD103AWS		(I _R = 100 μA)	30			
SD103BWS		(I _R = 100 μA)	20			
Reverse Leakage	I _R	(V _R = 30 V)			5	μA
SD103AWS		(V _R = 20 V)				
SD103BWS		(V _R = 10 V)				
Forward Voltage	V _F	(I _F = 20 mA)			0.37	V
		(I _F = 200 mA)			0.60	
Total Capacitance	C _T	(V _R = 0 V, f = 1.0 MHz)			50	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =200mA, I _{rr} =0.1xI _R , R _L =100 Ω		10		ns

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Typical Characteristics

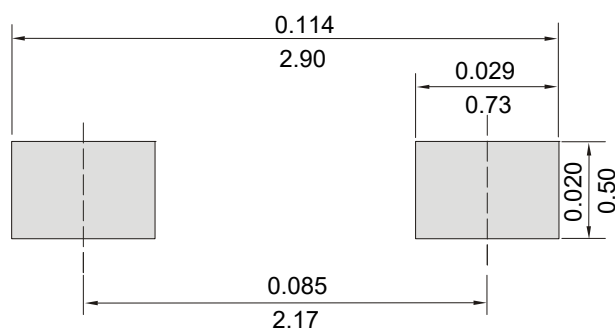


SD103AWS/BWS/CWS

MOUNTING PAD LAYOUT

SOD-323

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SD103AWS/BWS/CWS	SOD-323	7 Inch	3000