

SOD-323 Plastic-Encapsulate Schottky Barrier Diode

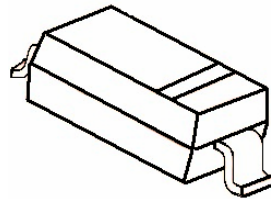
Features

- High Current Capability
- Low Forward Voltage Drop

Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

SOD-323



Marking: SD103AWS: S4
SD103BWS: S5
SD103CWS: S6

Maximum Ratings & Thermal Characteristics (T_A=25°C unless otherwise noted.)

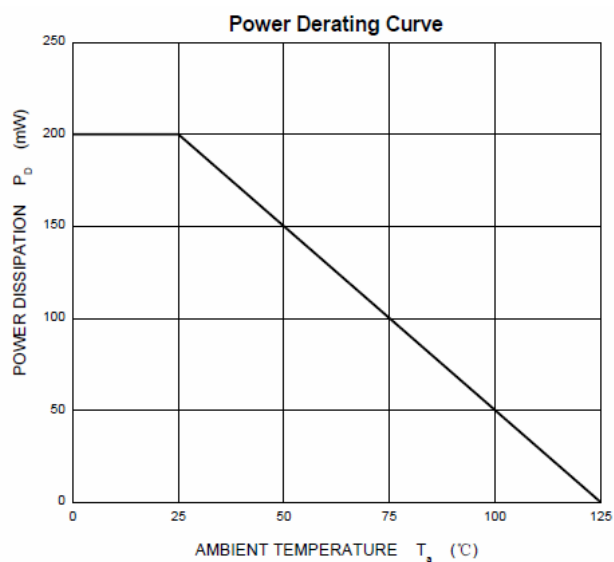
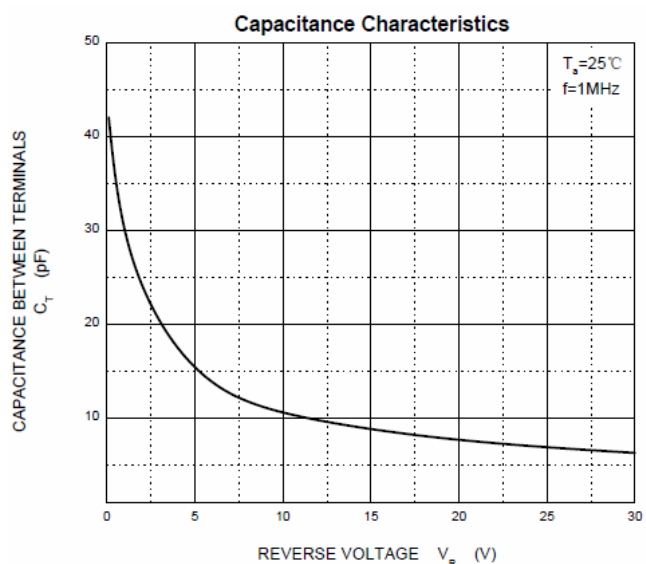
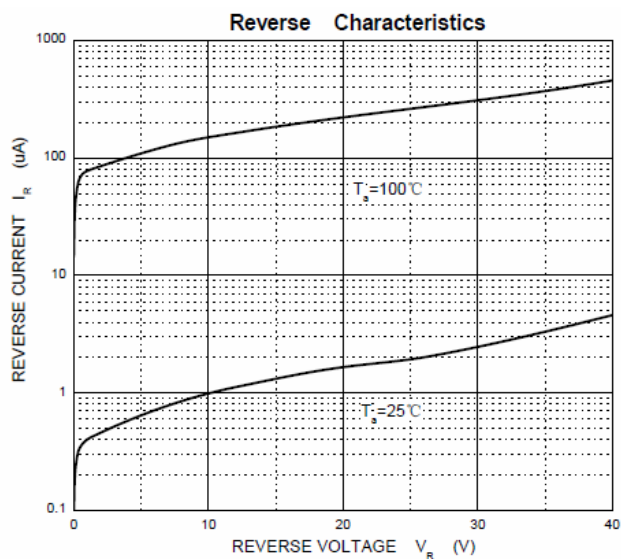
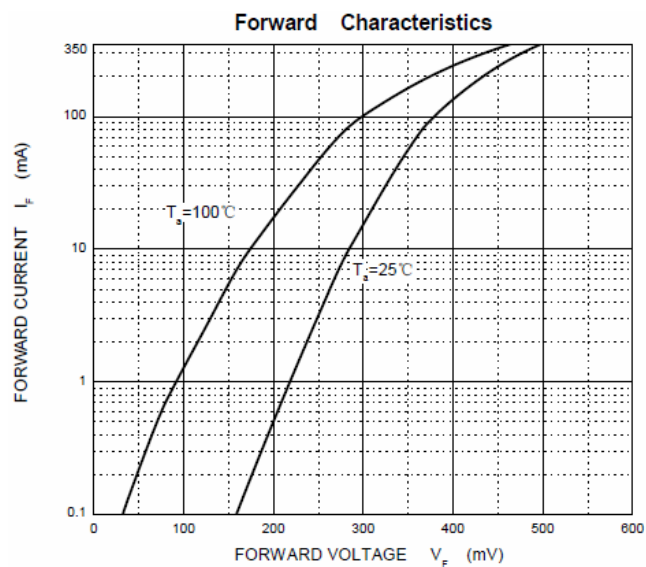
Parameters	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Maximum repetitive peak reverse voltage	VRRM	40	30	20	V
Maximum RMS voltage	VRMS	28	21	14	V
Maximum DC blocking voltage	VDC	40	30	20	V
Maximum average forward rectified current	IFM	350			mA
Peak forward surge current 8.3 ms single half sine-wave	IFSM	1.5			A
Power Dissipation	PD	200			mW
Typical thermal resistance	RθJA	500			°C/W
Operating junction temperature	T _j	125			°C
Storage temperature range	TSTG	-50~+150			°C

Electrical Characteristics (T_A=25°C unless otherwise noted.)

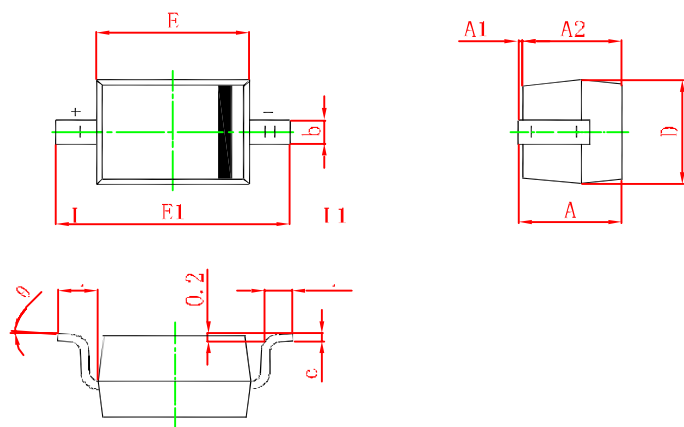
Parameters	Symbol	Test conditions	SD103AWS	SD103BWS	SD103CWS	Unit
Maximum forward voltage	V _F	IF = 20mA IF = 200mA	0.370 0.600			V
Maximum reverse breakdown voltage	V _R	IR=100uA	40	30	20	V
Maximum reverse current	I _R	VR=30V SD103AWS VR=20V SD103BWS VR=10V SD103CWS	5.0			uA
Type junction capacitance	C _j	VR = 0V, f = 1MHz	50			pF
Reverse recovery time	T _{rr}	IF=IR=200mA, Irr=0.1xIR, RL=100 Ω	10			ns



Typical Characteristics



SOD-323 Package Outline Dimensions



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°