

SOD-323 Plastic-Encapsulate Diodes

SD103AWS/SD103BWS/SD103CWS

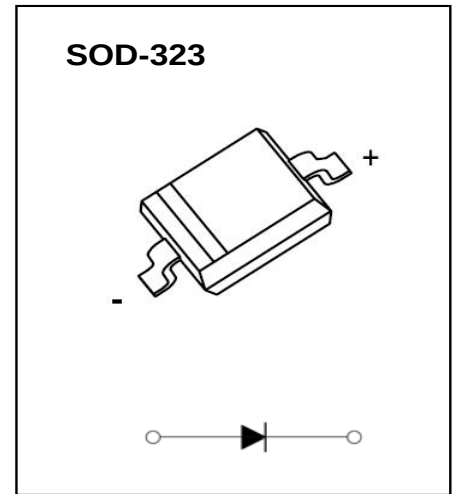
SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage Drop, Low Capacitance
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time

MARKING

SD103AWS	SD103BWS	SD103CWS
		



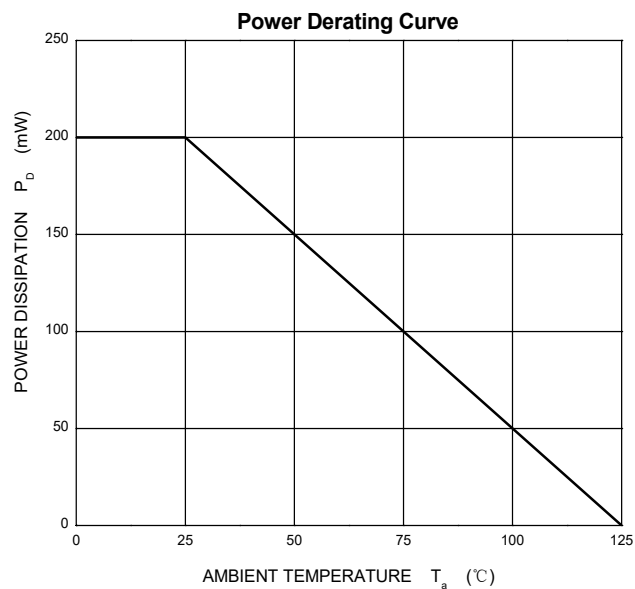
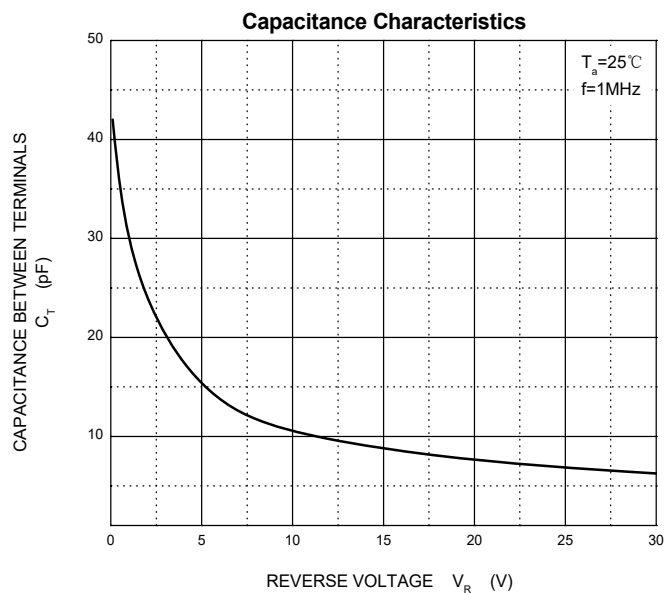
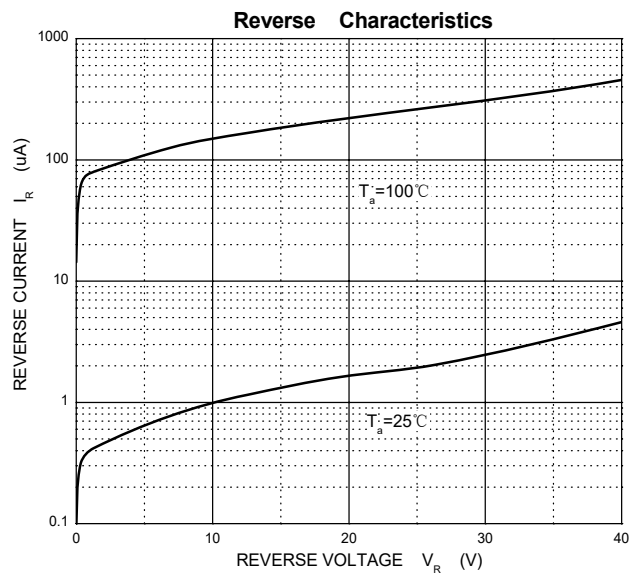
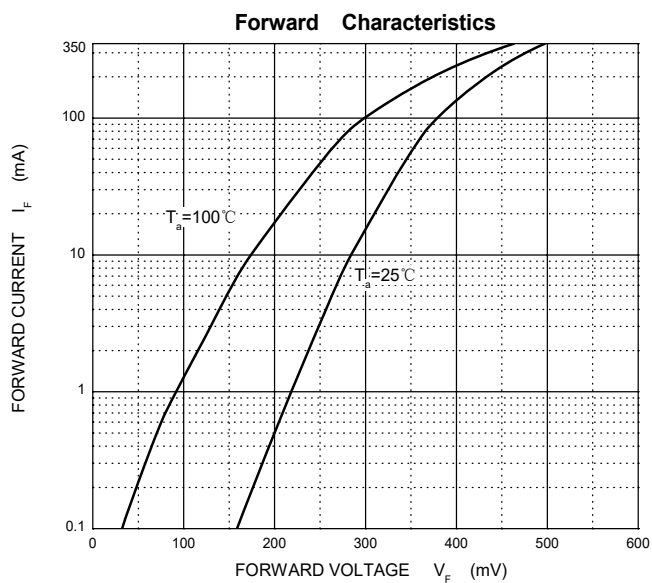
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

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	-40~+125			°C
Storage Temperature	T _{STG}	-55~+150			°C

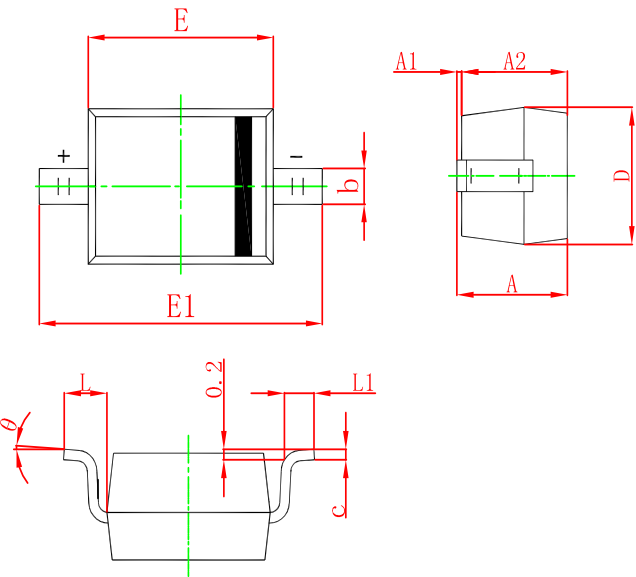
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V _(BR)				V	
SD103AWS		40				I _R =100μA
SD103BWS		30				I _R =100μA
SD103CWS		20				I _R =100μA
Forward voltage	V _F			0.37 0.60	V	I _F =20mA I _F =200mA
Reverse current	I _{RM}			5.0	μA	
SD103AWS						V _R =30V
SD103BWS						V _R =20V
SD103CWS						V _R =10V
Capacitance between terminals	C _T			50	pF	V _R =0V, f=1.0MHz
Reverse recovery time	t _{rr}		10		ns	I _F =I _R =200mA I _{rr} =0.1X I _R , R _L =100Ω

Typical Characteristics

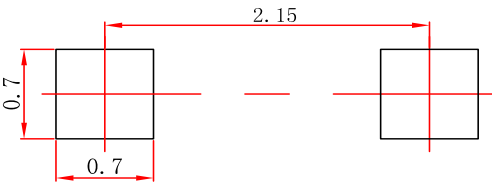


Package Outline Dimensions (SOD-323)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

Suggested Pad Layout (SOD-323)



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.