

SOD-323 Plastic-Encapsulate Schottky Barrier Diode

Features

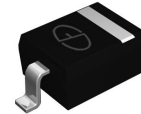
- High Current Capability
- Low Forward Voltage Drop

Mechanical Data

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



RoHS
COMPLIANT



Marking: SOD-323

SD103AWS: S4

SD103BWS: S5

SD103CWS: S6

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

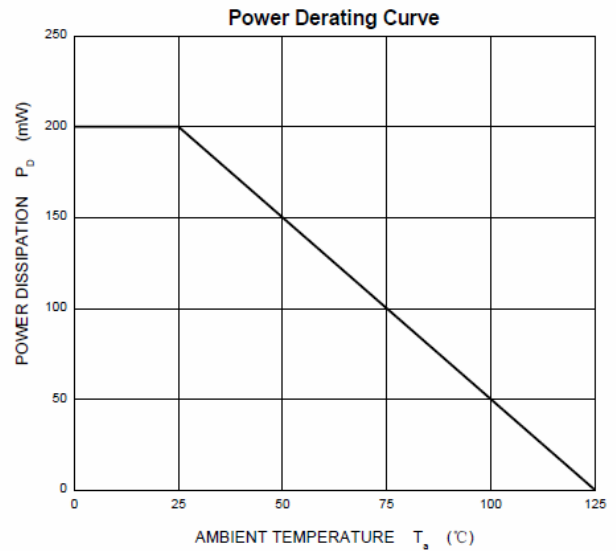
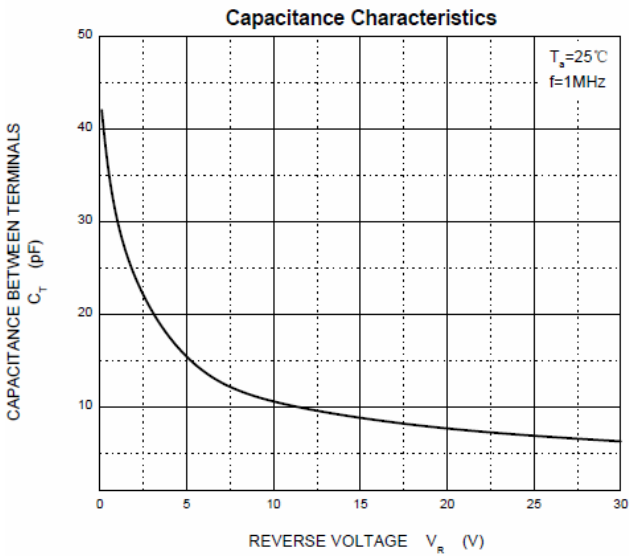
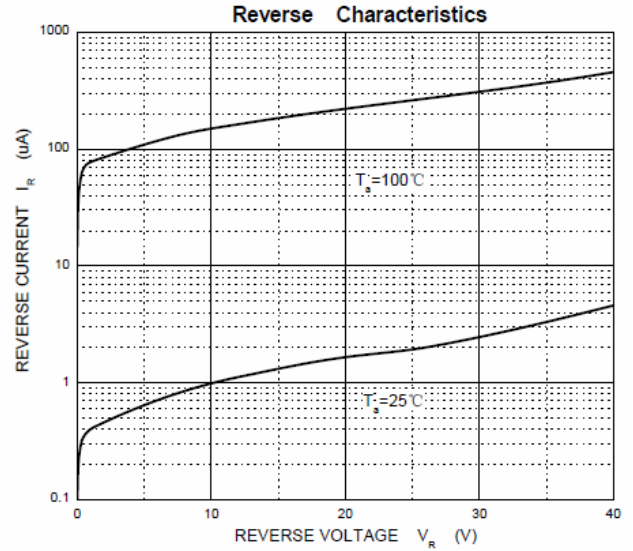
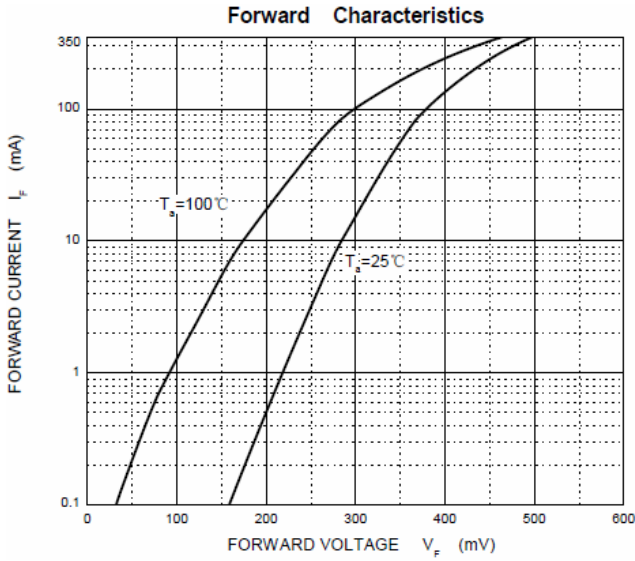
Parameters	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	30	20	V
Maximum RMS voltage	V _{RMS}	28	21	14	V
Maximum DC blocking voltage	V _{DC}	40	30	20	V
Maximum average forward rectified current	I _{FM}	350			mA
Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	1.5			A
Power Dissipation	P _D	200			mW
typical thermal resistance	R _{θJA}	500			°C/W
Operating junction temperature	T _J	125			°C
Storage temperature range	T _{STG}	-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	I _F = 20mA I _F = 200mA	0.370 0.600			V
Maximum reverse breakdown voltage	V _R	I _R =100uA	40	30	20	V
Maximum reverse current	I _R	V _R =30V SD103AWS V _R =20V SD103BWS V _R =10V SD103CWS	5.0			uA
Type junction capacitance	C _j	V _R =0V, f = 1MHz	50			pF
Reverse recovery time	T _{RR}	I _F =I _R =200mA, I _{rr} =0.1xI _R , R _L =100 Ω	10			ns

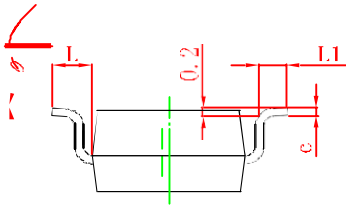
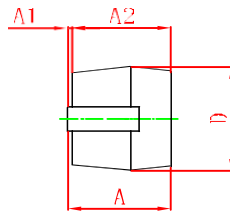
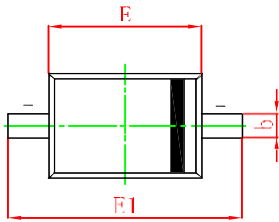
Ratings and Characteristics Curves

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



Package Outline Dimensions

in inches (millimeters)



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°

Revision History

Document Version	Date of release	Description of changes
Rev.A	2015.09.01	First issue



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