

FEATURES

- Peak Forward Current: $I_{FM}=350\text{mA}$
- Power Dissipation of 200mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SD103AWS	SOD-323	S4	3000
SD103BWS	SOD-323	S5	3000
SD103CWS	SOD-323	S6	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

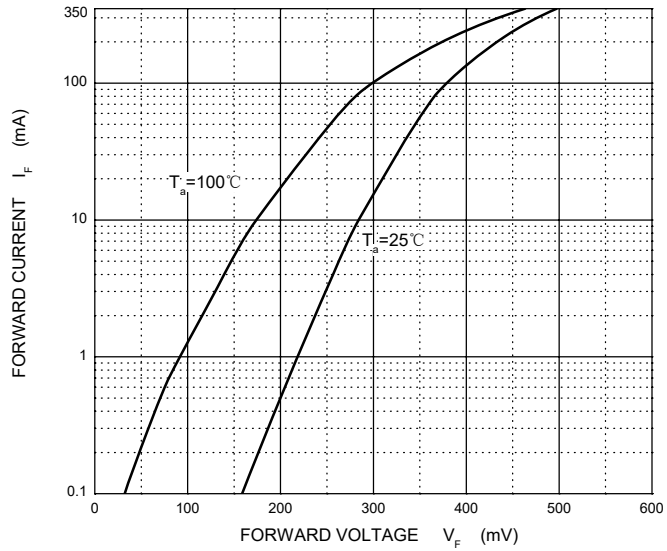
Parameter	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}	40	30	20	V
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_{FM}	350			mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0			A
Power Dissipation	P_d	200			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			°C/W
Junction Temperature	T_j	-40~+125			°C
Storage Temperature	T_{STG}	-55~+150			°C

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

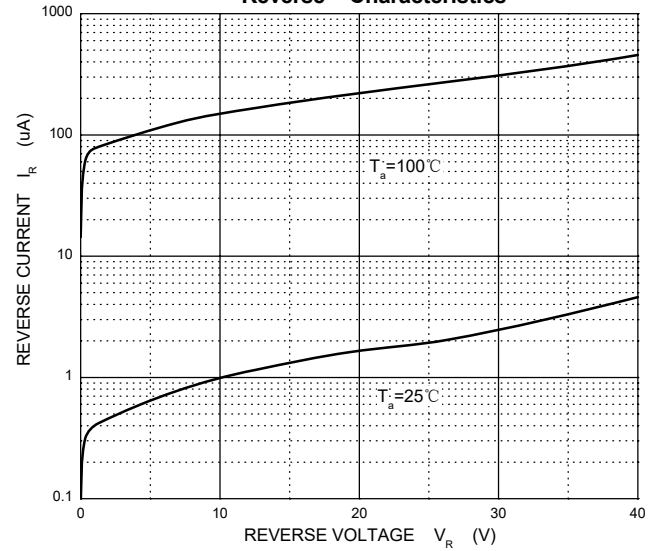
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage						
SD103AWS	$V_{(BR)}$	40			V	$I_R=100\mu A$
SD103BWS		30				$I_R=100\mu A$
SD103CWS		20				$I_R=100\mu A$
Forward voltage	V_F			0.37 0.60	V	$I_F=20\text{mA}$ $I_F=200\text{mA}$
Reverse current						
SD103AWS	I_{RM}			5.0	μA	$V_R=30\text{V}$
SD103BWS						$V_R=20\text{V}$
SD103CWS						$V_R=10\text{V}$
Capacitance between terminals	C_T			50	pF	$V_R=0\text{V}, f=1.0\text{MHz}$
Reverse recovery time	t_{rr}		10		ns	$I_F=I_R=200\text{mA}$ $I_{rr}=0.1I_R, R_L=100\Omega$

Typical Characteristics

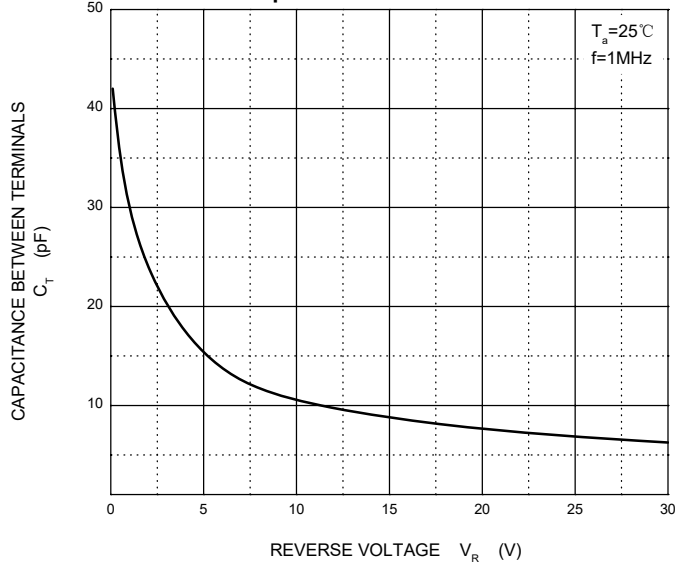
Forward Characteristics



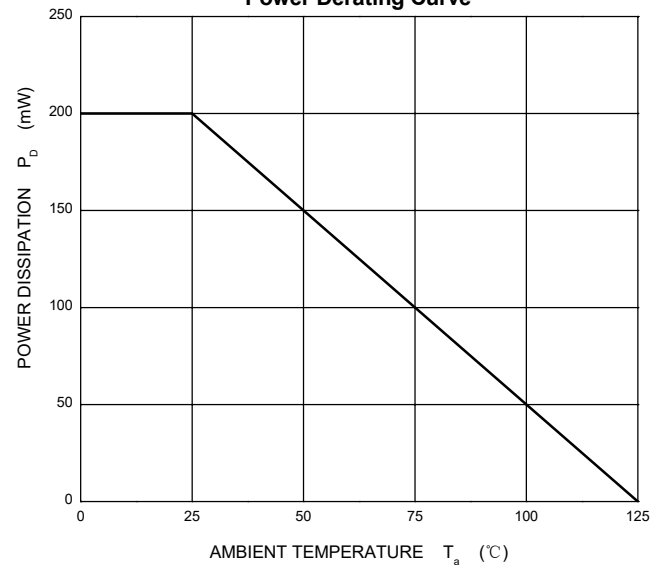
Reverse Characteristics



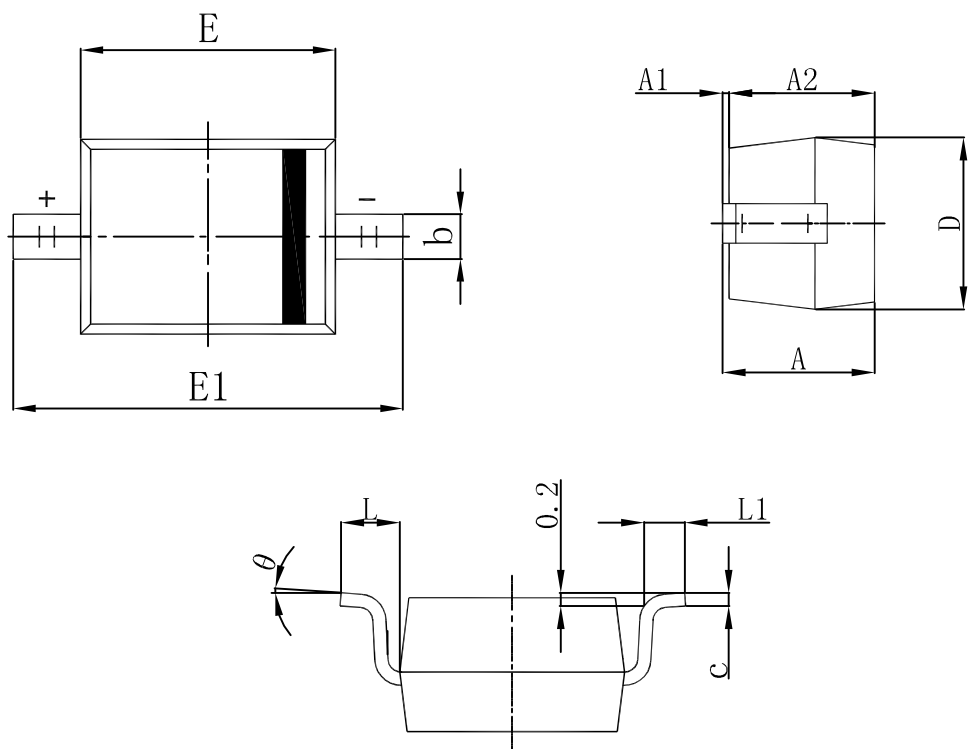
Capacitance Characteristics



Power Derating Curve



SOD-323 Package Outline Dimensions



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°