



## Features

- Average Rectified Output Current:  $I_O=1A$
- Power Dissipation of 250mW

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
B140WS-7	SOD-323	SL	3000



**SOD-323**



## Maximum Ratings (Ta=25°C unless otherwise noted)

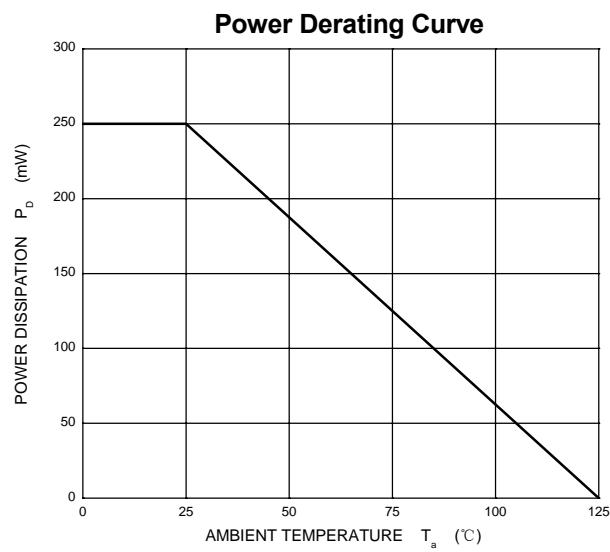
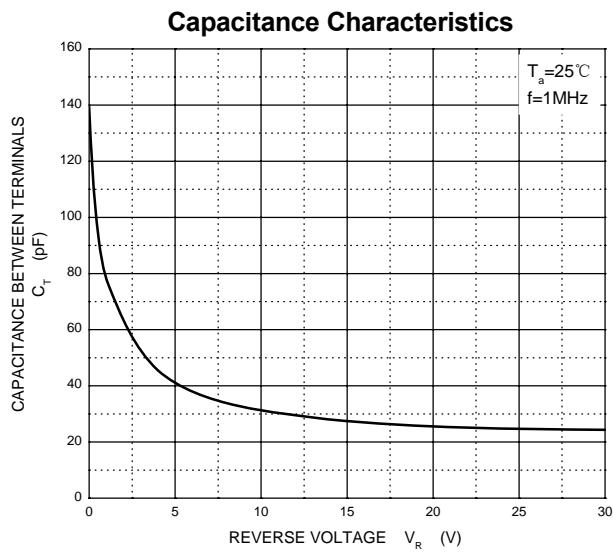
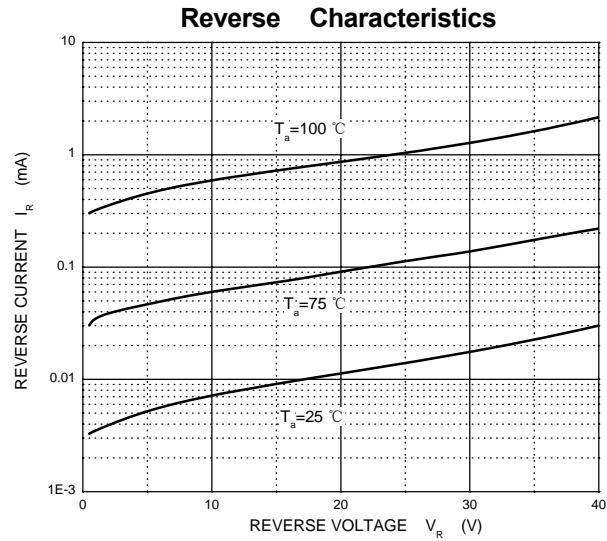
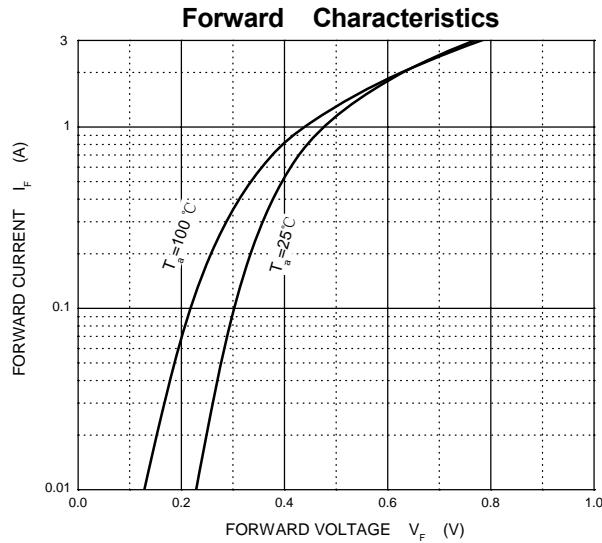
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	40	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	40	V
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Output Current	$I_O$	1	A
Non-repetitive Peak Forward Surge Current (@t=8.3ms)	$I_{FSM}$	9	A
Repetitive Peak Forward Current	$I_{FRM}$	1.5	A
Power Dissipation	$P_D$	250	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	200	°C/W
Operation Junction temperature Range	$T_J$	- 40~+125	°C
Storage Temperature Range	$T_{STG}$	- 55~+150	°C

## Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R= 1mA$	40		V
Reverse voltage leakage current	$I_R$	$V_R=40V$		1	mA
Forward voltage	$V_F$	$I_F=1A$ $I_F=3A$		0.6 0.9	V
Diode capacitance	$C_D$	$V_R=4V, f=1MHz$		120	pF

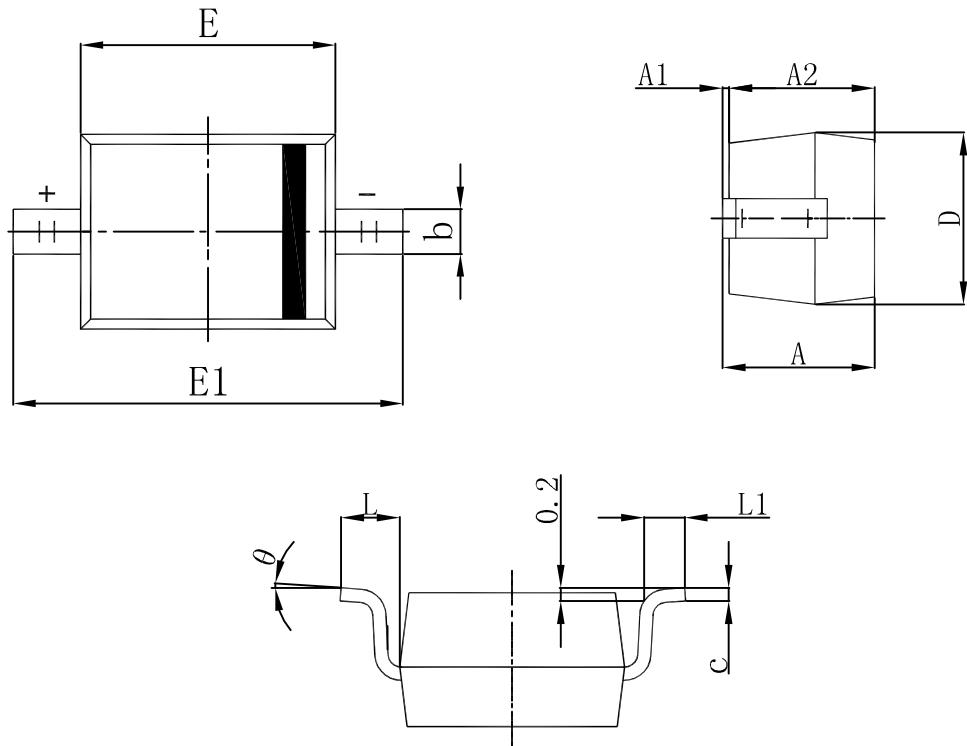


## Typical Characteristics





### 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°



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