



## FEATURES

- Average Rectified Output Current:  $I_O=200\text{ mA}$
- Power Dissipation of 250mw



SOD-323



## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV19WS	SOD-323	A8	3000
BAV20WS	SOD-323	T2	3000
BAV21WS	SOD-323	T3	3000

## MAXIMUM RATINGS ( $T_a=25$ unless otherwise noted)

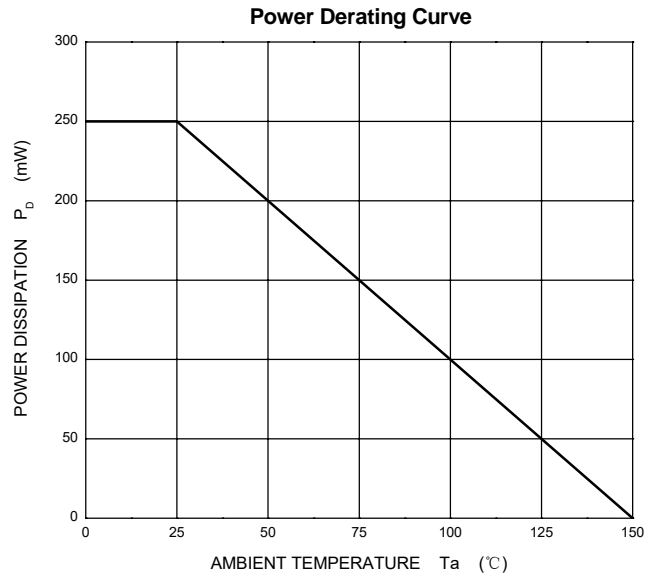
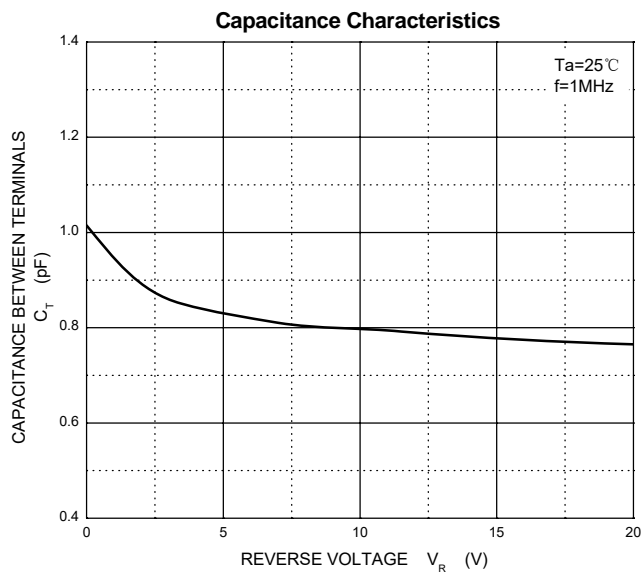
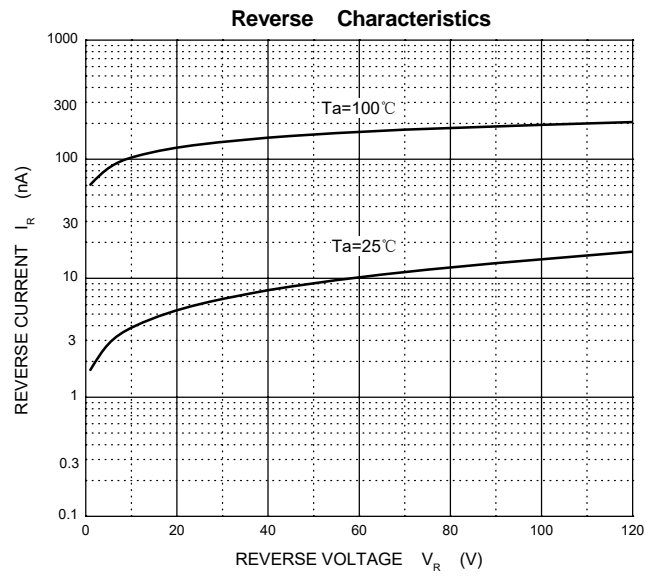
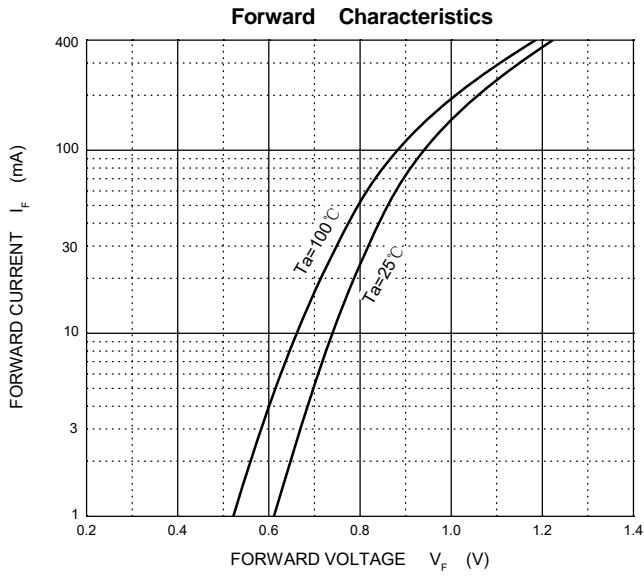
Symbol	Parameter	Value			Unit
		BAV19WS	BAV20WS	BAV21WS	
$V_{RM}$	Non-Repetitive Peak Reverse Voltage	120	200	250	V
$V_{RRM}$	Peak Repetitive Reverse Voltage	100	150	200	V
$V_{RWM}$	Working Peak Reverse Voltage				
$V_{R(RMS)}$	RMS Reverse Voltage	71	106	141	V
$I_O$	Average Rectified Output Current	200			mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	2.0			A
$I_{FRM}$	Repetitive Peak Forward Surge Current	625			mA
$P_D$	Power Dissipation	250			mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500			$^{\circ}\text{C/W}$
$T_J, T_{stg}$	Operation Junction and Storage Temperature Range	-55~+150			$^{\circ}\text{C}$

## ELECTRICAL CHARACTERISTICS ( $T_a=25$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse current	$I_R$	$V_R=100\text{V}$	BAV19WS		0.1	uA
		$V_R=150\text{V}$	BAV20WS		0.1	
		$V_R=200\text{V}$	BAV21WS		0.1	
Forward voltage	$V_F$	$I_F=100\text{mA}$			1	V
		$I_F=200\text{mA}$			1.25	
Total capacitance	$C_{tot}$	$V_R=0\text{V}, f=1\text{MHz}$			5	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=30\text{mA}, I_{rr}=0.1*I_R, R_L=100\Omega$			50	ns

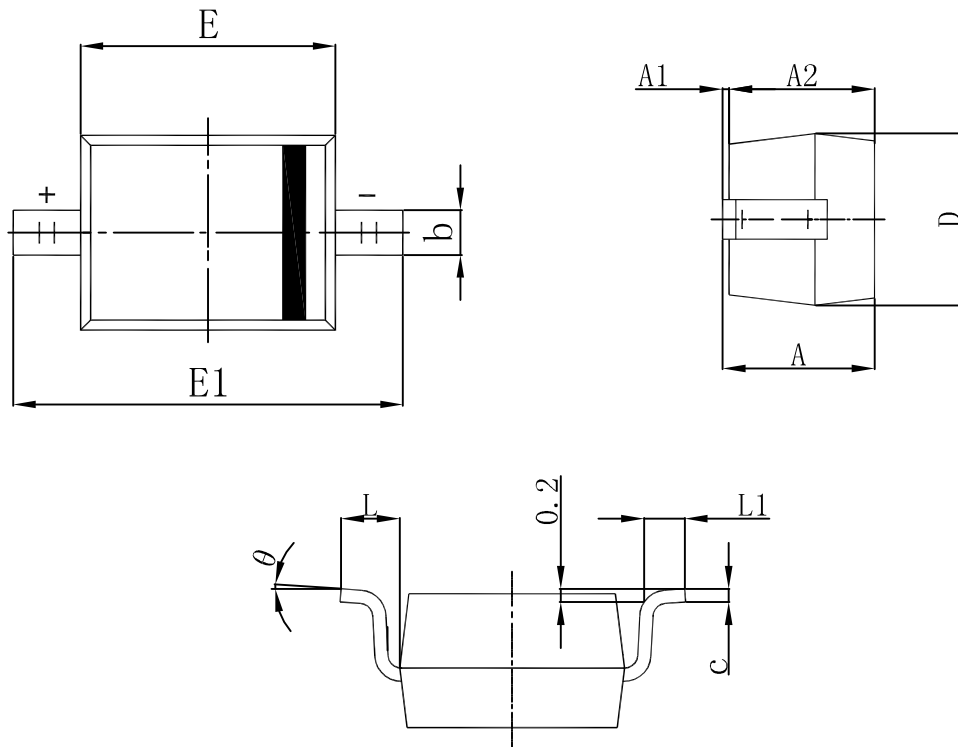


### Typical Characteristics





**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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