



FEATURES

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
B5817WS	SOD-323	SJ	3000
B5818WS	SOD-323	SK	3000
B5819WS	SOD-323	SL	3000



SOD-323



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

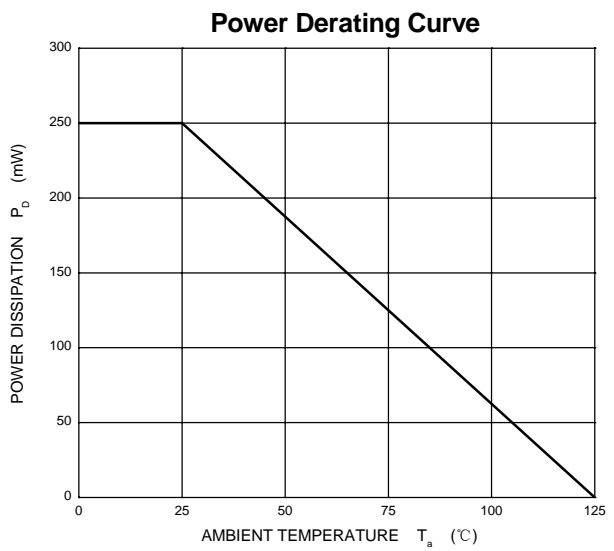
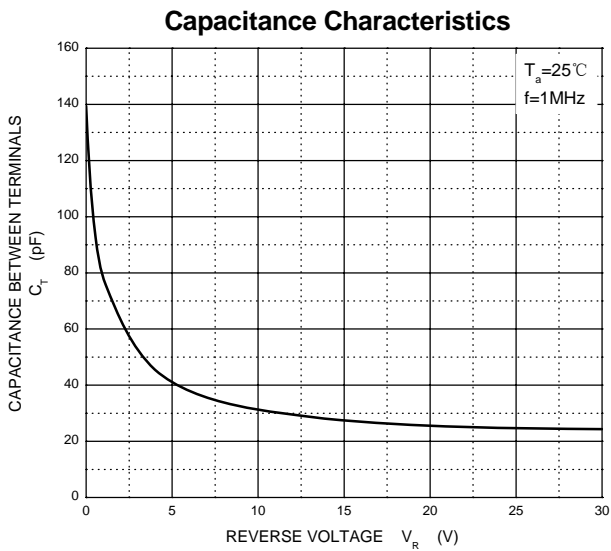
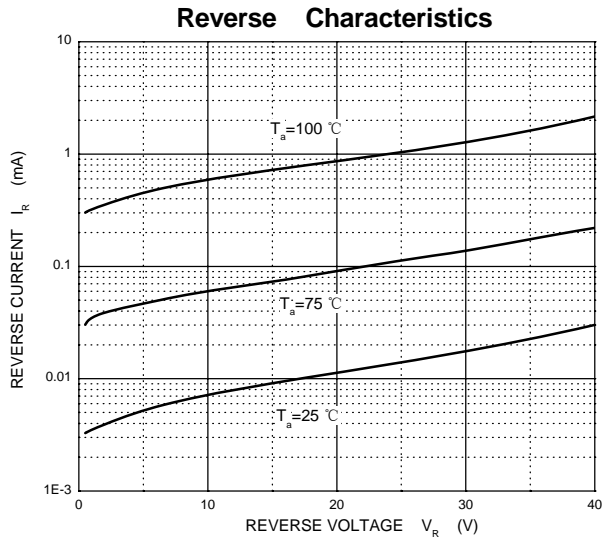
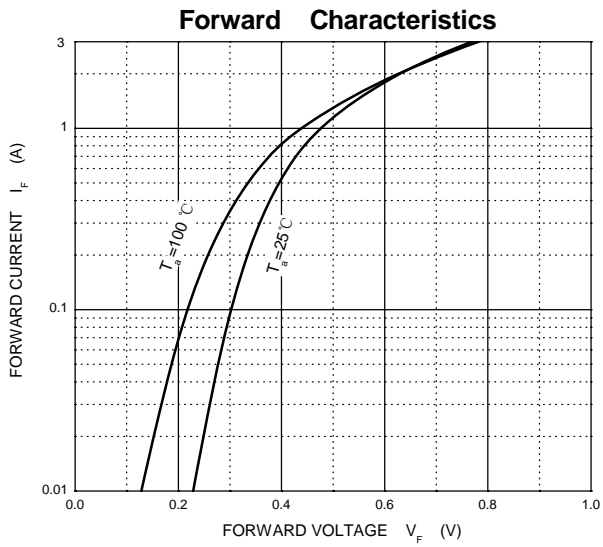
Parameter	Symbol	B5817WS	B5818WS	B5819WS	Unit
Non-repetitive peak reverse voltage	V_{RM}	20	30	40	V
Peak repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Working peak reverse voltage	V_{RWM}				
DC blocking voltage	V_R				
RMS reverse voltage	$V_{R(RMS)}$	14	21	28	V
Average rectified output current	I_O	1			A
Peak forward surge current 4 pulses, 10ms width, 10% duty cycle	I_{FSM}	9			A
Repetitive peak forward current	I_{FRM}	1.5			A
Power dissipation	P_d	250			mW
Thermal resistance junction to ambient	$R_{\theta JA}$	400			°C/W
Operation Junction temperature Range	T_J	125			°C
Storage temperature Range	T_{STG}	-55~+150			°C

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1mA$ B5817WS B5818WS B5819WS	20 30 40		V
Reverse voltage leakage current	I_R	$V_R=20V$ B5817WS $V_R=30V$ B5818WS $V_R=40V$ B5819WS		1	mA
Forward voltage	V_F	B5817WS $I_F=1A$		0.45	V
		$I_F=3A$		0.75	
		B5818WS $I_F=1A$		0.55	V
		$I_F=3A$		0.875	
		B5819WS $I_F=1A$		0.6	V
		$I_F=3A$		0.9	
Diode capacitance	C_D	$V_R=4V, f=1MHz$		120	pF

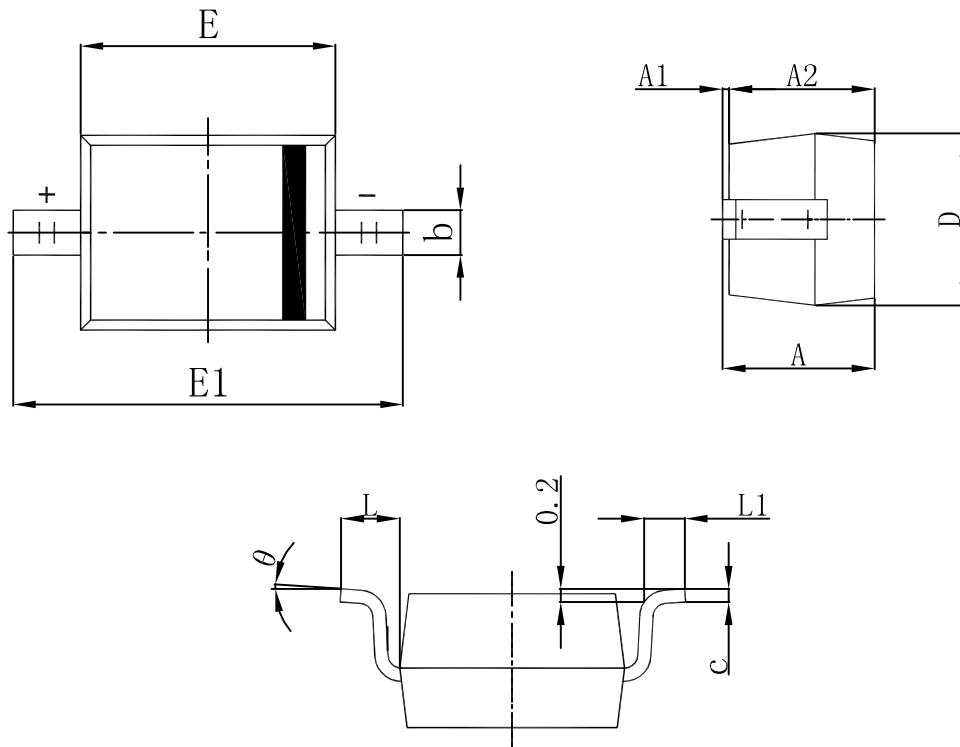


Typical Characteristics





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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