

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



Maxmim Ratings (Ta=25°C unless otherwise noted)

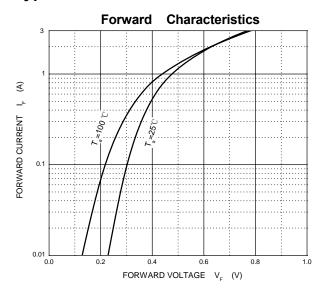
Parameter	Symbol	B5817W	B5818W	B5819W	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	20	30	40	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Rectified Output Current	Io	1			Α
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	I _{FSM} 9		А	
Repetitive Peak Forward Current	I _{FRM}	1.5			Α
Power Dissipation	Po	250			mW
Thermal Resistance Junction to Ambient	R _{0JA}	200		°C/W	
OperationJunction temperature Range	TJ	- 40~+125			°C
Storage Temperature Range	T _{STG}	- 55~+150			°C

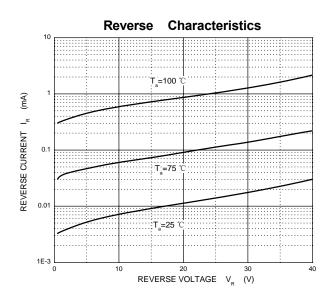
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

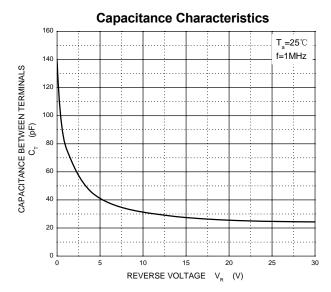
Parameter	Symbol	Test co	onditions	Min	Max	Unit	
Reverse breakdown voltage	V _(BR)	I _R = 1mA	B5817WS B5818WS B5819WS	20 30 40		V	
Reverse voltage leakage current	I _R	V _R =20V V _R =30V V _R =40V	B5817WS B5818WS B5819WS		1	mA	
	V _F	B5817W	I _F =1A		0.45	V	
			I _F =3A		0.75		
Forward voltage		B5818W	I _F =1A		0.55	V	
1 orward voltage			I _F =3A		0.875		
		B5819W	I _F =1A		0.6	V	
			I _F =3A		0.9	Ţ	
Diode capacitance	C _D	V _R =4V, f=1N	ИНz		120	pF	

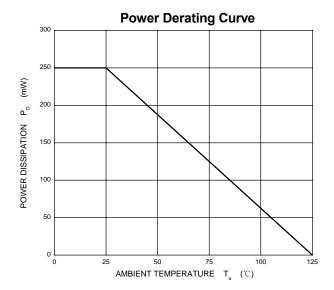


Typical Characteristics



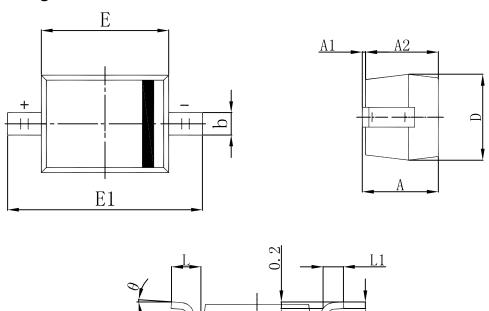








SOD-323 Package Outline Dimensions



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α		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	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
Е	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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