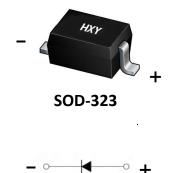


FEATURES

- 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



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

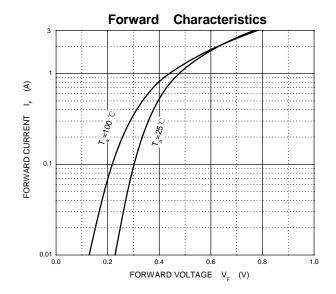
Parameter	Symbol	B5817WS	B5818WS	B5819WS	Unit
Non-repetitive peak reverse voltage	V_{RM}	20	30	40	٧
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	20	30	40	V
RMS reverse voltage	$V_{R(RMS)}$	14	21	28	V
Average rectified output current	Io	1			А
Bcb!fYdYijij Y'DYU_'Forward Gi f[Y'7 urrent 4 hl, " a g	I _{FSM}	9			А
Repetitive peak forward current	I _{FRM}	1.5		А	
Power dissipation	Pd	250		mW	
Thermal resistance junction to ambient	R _{0JA}	400		°C/W	
OperationJunction temperature Range	TJ	125		℃	
Storage temperature Range	T _{STG}	-55~+150		$^{\circ}$	

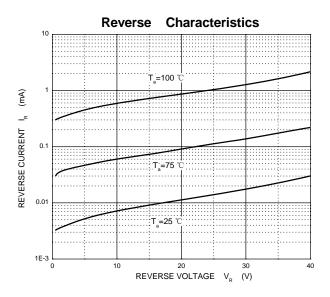
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

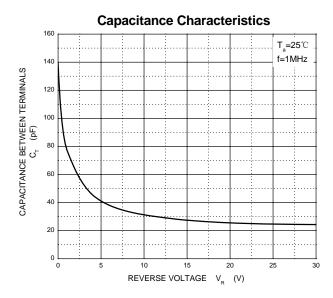
Parameter	Symbol	Test	conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 1mA	B5817WS B5818WS B5819WS	20 30 40		V
Reverse voltage leakage current	I _R	V _R =20V V _R =30V V _R =40V	B5817WS B5818WS B5819WS		1	mA
	V _F	B5817WS	S I _F =1A I _F =3A		0.45 0.75	V
Forward voltage		B5818WS	S I _F =1A I _F =3A		0.55 0.875	V
		B5819WS	S I _F =1A I _F =3A		0.6 0.9	V
Diode capacitance	C _D	V _R =4V, f=1MHz			120	pF

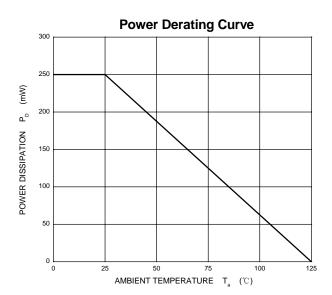


Typical Characteristics



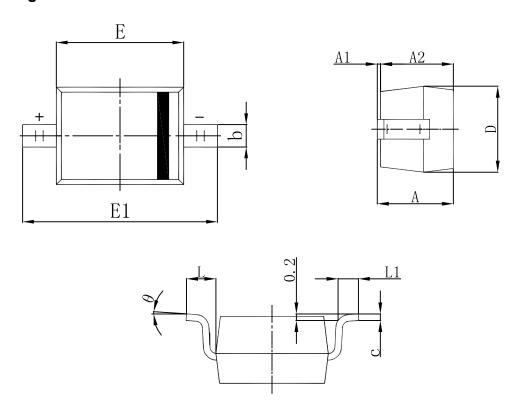








SOD-323 Package Outline Dimensions



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
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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