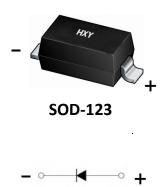


FEATURES

- Average Rectified Output Current:I_O=1 A
- Power Dissipation of 500mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
B5817W	SOD-123	SJ	3000
B5818W	SOD-123	SK	3000
B5819W	SOD-123	SL	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

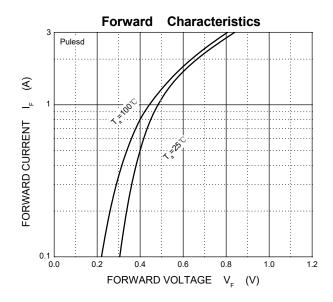
Parameter	Symbol	B5817W	B5818W	B5819W	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	20	30	40	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Rectified Output Current	lo	1			Α
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	9			Α
Repetitive Peak Forward Current	I _{FRM}	1.5			Α
Power Dissipation	PD	500			mW
Thermal Resistance Junction to Ambient	R _{0JA}	200			°C/W
OperationJunction temperature Range	TJ	-40~+125			℃
Storage Temperature Range	T _{STG}	-55~+150			$^{\circ}$

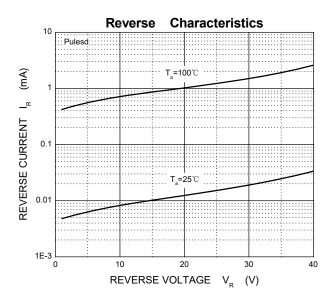
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

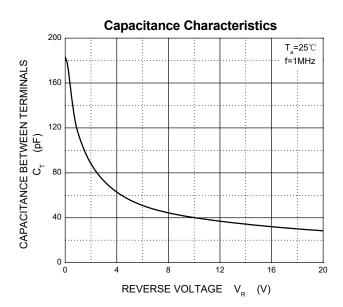
Parameter	Symbol	Test	conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 1mA	B5817W B5818W B5819W	20 30 40		V
Reverse voltage leakage current	I _R	V _R =20V V _R =30V V _R =40V	B5817W B5818W B5819W		1	mA
	V _F	B5817W	/ I _F =1A I _F =3A		0.45 0.75	V
Forward voltage		B5818W	/ I _F =1A I _F =3A		0.55 0.875	V
		B5819W	/ I _F =1A I _F =3A		0.6 0.9	V
Diode capacitance	C _D	V _R =4V, f=	1MHz		120	pF

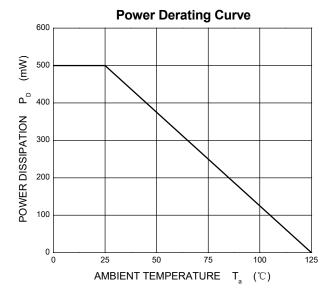


Typical Characteristics



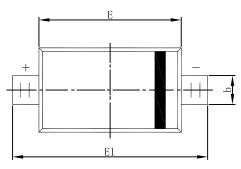


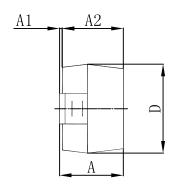


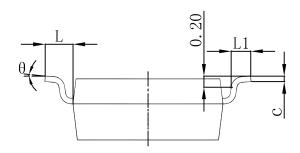




SOD-123 Package Outline Dimensions







Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
Е	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	

B5817W/B5818W/B5819W SCHOTTKY BARRIER DIODE

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