



BAIDU MICRO ELECTRONS CO., LTD.

SOD-123 Plastic-Encapsulate Diodes

B5817W-5819W SCHOTTKY BARRIER DIODE

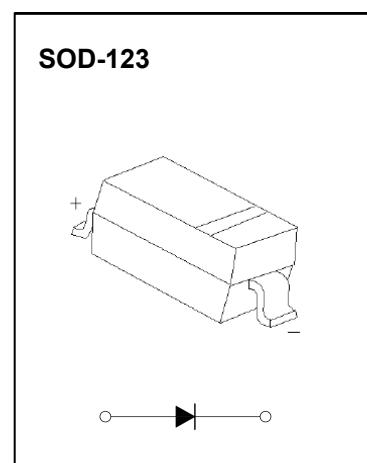
FEATURES

For use in low voltage, high frequency inverters
Free wheeling, and polarity protection applications.

MARKING: B5817W: SJ

B5818W:SK

B5819W: SL



Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	B5817W	B5818W	B5819W	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	20	30	40	V
Peak Repetitive Peak Reverse Voltage	V _{RPM}				
Working Peak Reverse Voltage	V _{RWM}	20	30	40	V
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 @t=8.3ms	I _{FSM}		9		A
Repetitive Peak Forward Current	I _{FRM}		1.5		A
Power Dissipation	P _D		500		mW
Thermal Resistance Junction to Ambient	R _{θJA}		250		°C/W
Junction temperature	T _J		125		°C
Storage Temperature	T _{STG}		-55~+150		°C

ELECTRICAL CHARACTERISTICS (Ta=25°C 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
Forward voltage	V _F	B5817W I _F =1A I _F =3A B5818W I _F =1A I _F =3A B5819W I _F =1A I _F =3A		0.45 0.75 0.55 0.875 0.6 0.9	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF



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