



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

B5817WS-5819WS SCHOTTKY BARRIER DIODE

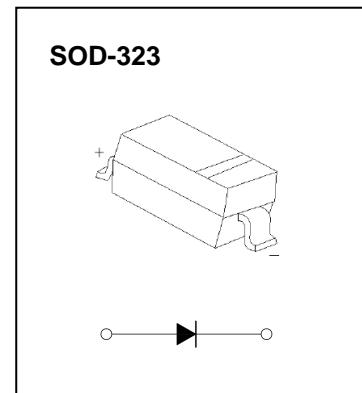
FEATURES

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

MARKING: B5817WS: SJ

B5818WS:SK

B5819WS: SL



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

Parameter	Symbol	B5817WS	B5818WS	B5819WS	Unit
Non-repetitive peak reverse voltage	V _{RM}	20	30	40	V
Peak repetitive peak reverse voltage	V _{RRM}				
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		250		mW
Thermal resistance junction to ambient	R _{θJA}		400		°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 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
Forward voltage	V _F	B5817WS I _F =1A I _F =3A		0.45 0.75	V
		B5818WS I _F =1A I _F =3A		0.55 0.875	V
		B5819WS I _F =1A I _F =3A		0.6 0.9	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF

Typical Characteristics

B5819WS

