

B5817W-5819W 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 @T_A=25°C

Parameter	Symbol	B5817WS	B5818WS	B5819WS	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 _{RPM} V _{RWM} V _R	20	30	40	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Rectified Output Current	I _O		1		A
Peak forward surge current @=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}		500		°C/W
Storage temperature	T _{STG}		-65~+150		°C

ELECTRICAL CHARACTERISTICS (T_{amb}=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 B5818WS I _F =1A I _F =3A B5819WS 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

Typical Characteristics

B5817W-5819W

