



SOD-123 Plastic-Encapsulate Diodes

B5817LW-5819LW SCHOTTKY BARRIER DIODE

FEATURES

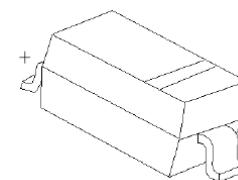
For use in low voltage, high frequency inverters
Free wheeling, and polarity protection applications.

MARKING: B5817LW: SJA

B5818LW: SKA

B5819LW: SLA

SOD-123



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

Parameter	Symbol	B5817LW	B5818LW	B5819LW	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		350		mW
Thermal Resistance Junction to Ambient	R _{θJA}		357		°C/W
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 B5817LW B5818LW B5819LW 20 30 40			V
Reverse voltage leakage current	I _R	V _R =20V V _R =30V V _R =40V B5817LW B5818LW B5819LW		1	mA
Forward voltage	V _F	B5817LW I _F =1A I _F =3A B5818LW I _F =1A I _F =3A B5819LW I _F =1A I _F =3A		0.49 0.8 0.6 0.95 0.66 1.1	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF