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

SOD-123
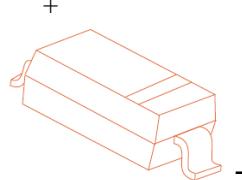
Maximum Ratings and Electrical Characteristics, Single Diode @T$_A$=25℃

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	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	Pd	500			mW
Thermal Resistance Junction to Ambient	R$_{θJA}$	250			℃/W
Storage temperature	T$_{STG}$	-65~+150			℃

ELECTRICAL   CHARACTERISTICS (Tamb=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
Forward voltage	V$_F$	B5817W	I$_F$=1A I$_F$=3A		0.45 0.75	V
		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

Fig. 1 - Forward Current Derating Curve

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

Fig. 3 - Typical Instantaneous Forward Characteristics

Fig. 4 - Typical Reverse Characteristics

Fig. 5 - Typical Junction Capacitance

Fig. 6 - Typical Transient Thermal Impedance
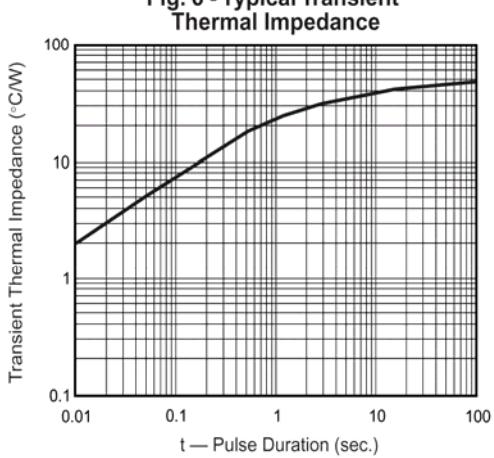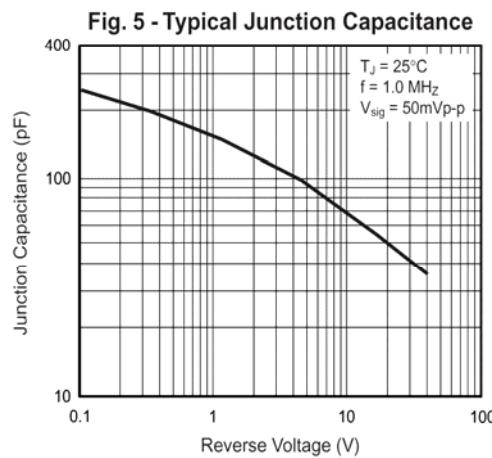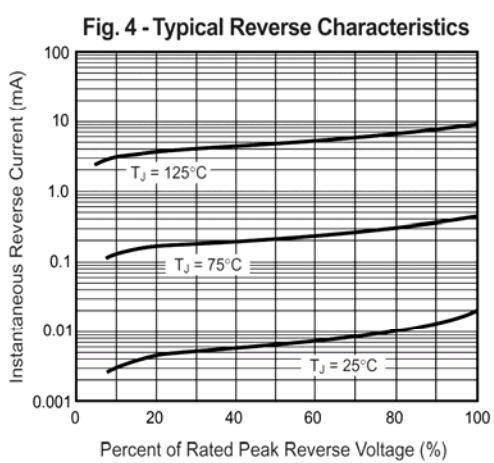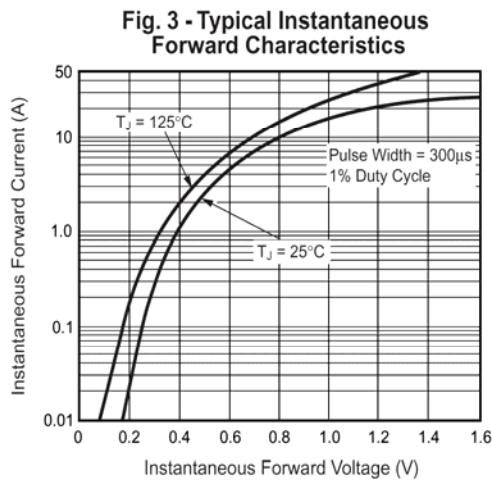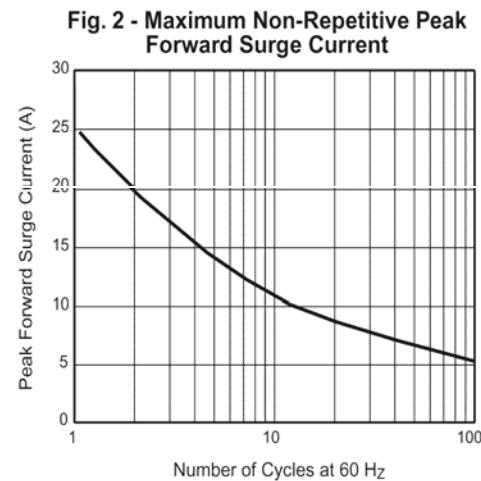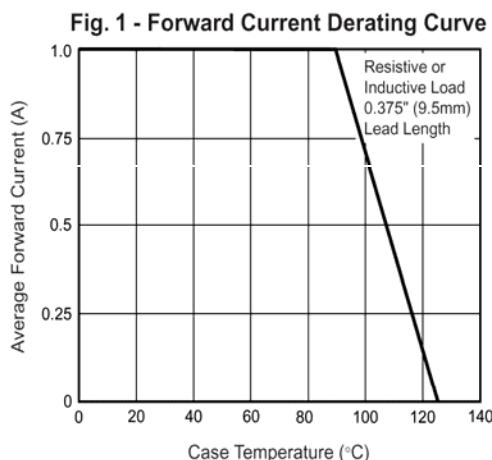
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