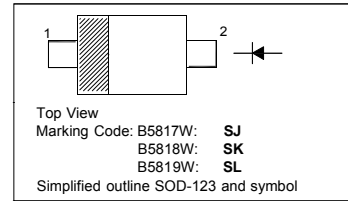


Features

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_a = 25 °C)

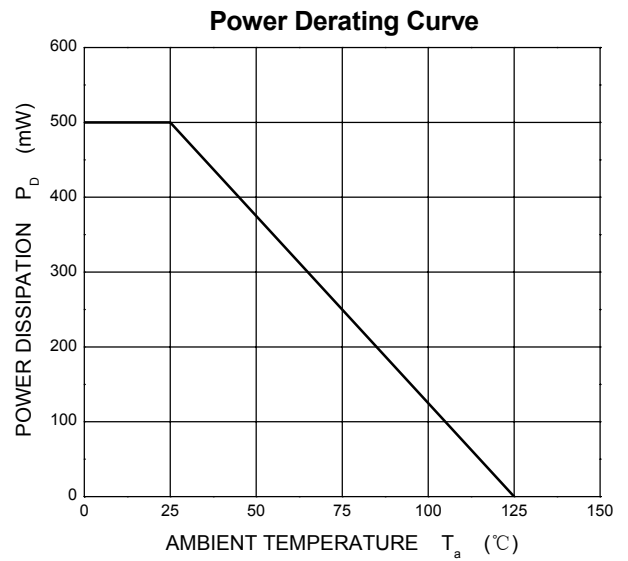
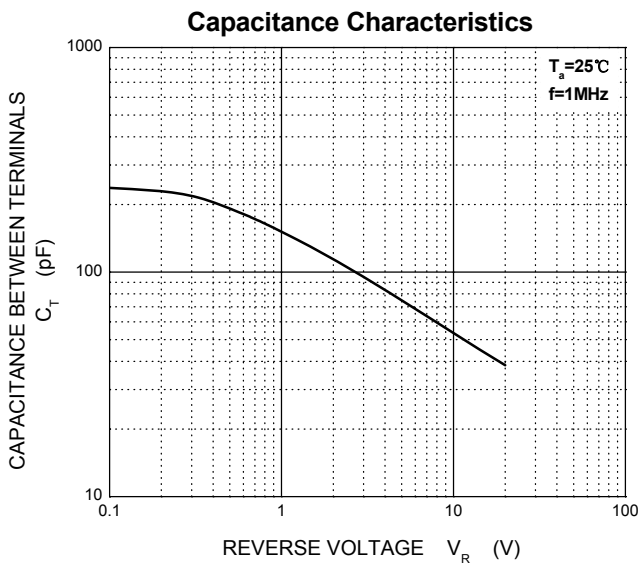
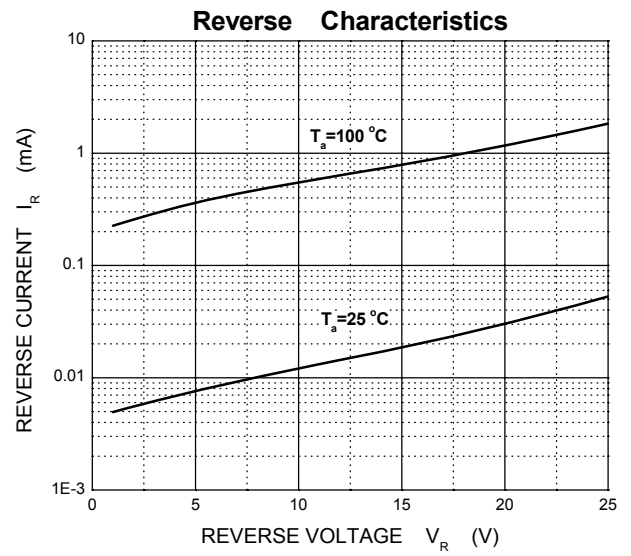
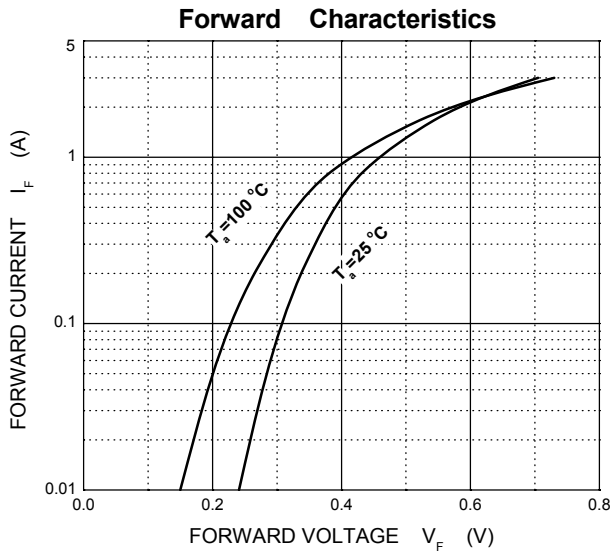
Parameter	Symbol	Value	Unit
Reverse Voltage	B5817W B5818W B5819W	20 30 40	V
Average Forward Rectified Current	I _{F(AV)}	1	A
Non-Repetitive Peak Forward Surge Current (8.3 ms Single Half Sine-Wave)	I _{FSM}	25	A
Power Dissipation	P _{tot}	500	mW
Operating Temperature Range	T _j	125	°C
Storage Temperature Range	T _{stg}	- 55 to + 125	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 1 mA	B5817W B5818W B5819W	20 30 40	- - -	V
Reverse Current at V _R = 20 V at V _R = 30 V at V _R = 40 V at V _R = 4 V at V _R = 6 V	B5817W B5818W B5819W B5819W B5819W	- - - - -	1 1 1 0.05 0.075	mA
Forward Voltage at I _F = 0.1 A at I _F = 1 A at I _F = 3 A	B5819W B5817W B5818W B5819W B5817W B5818W B5819W	- - - - - - -	0.45 0.45 0.55 0.6 0.75 0.875 0.9	V
Total Capacitance at V _R = 4 V, f = 1 MHz	C _{tot}	-	120	pF

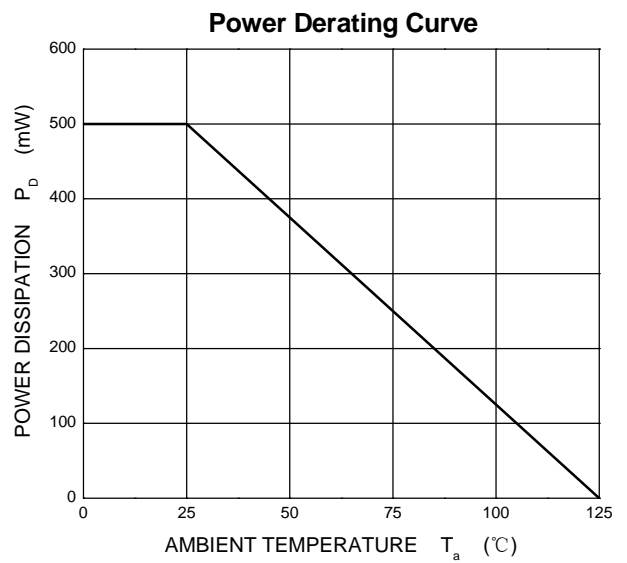
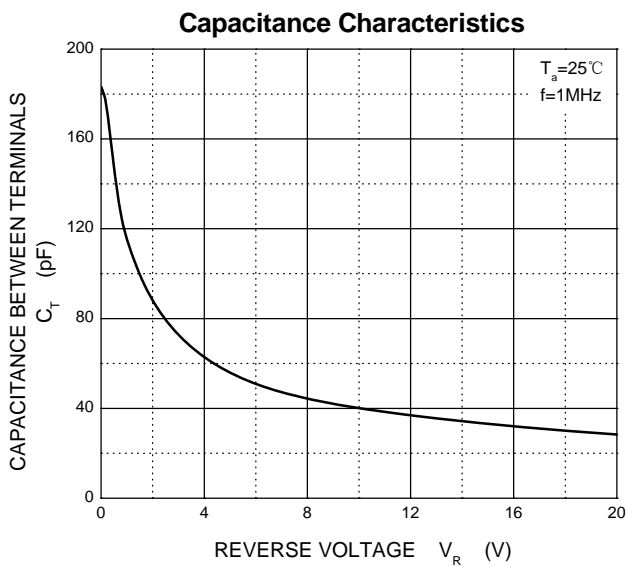
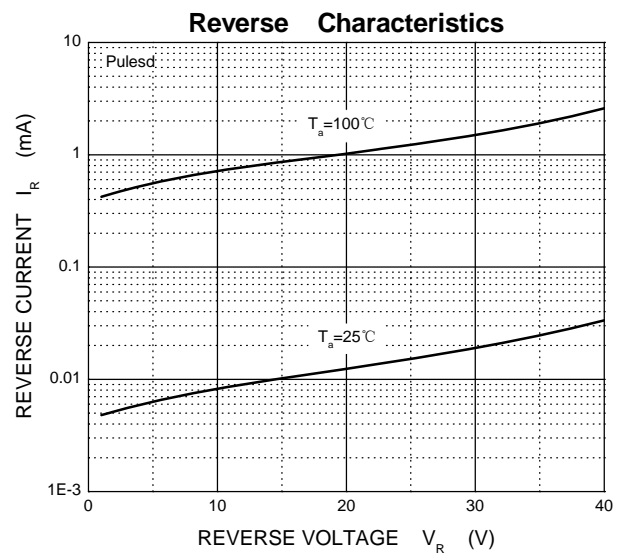
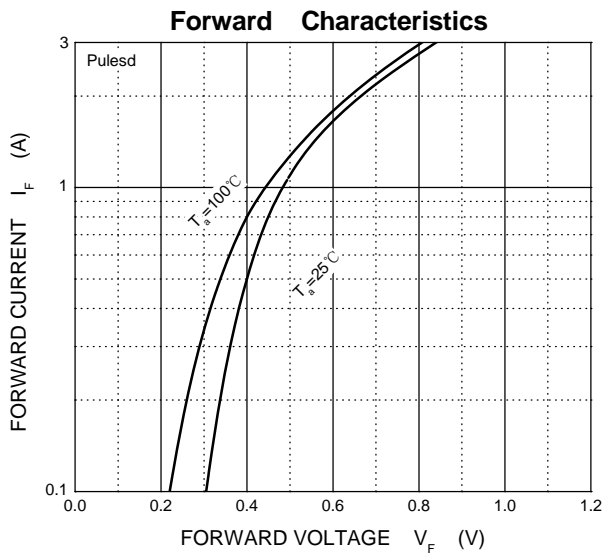
Typical Characteristics

B5817W



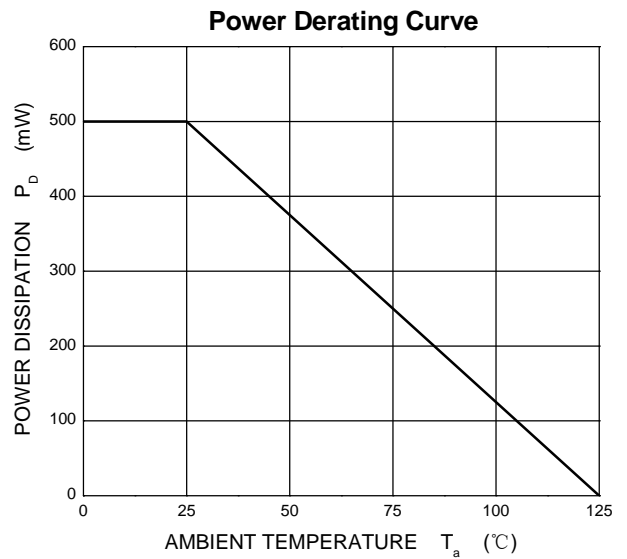
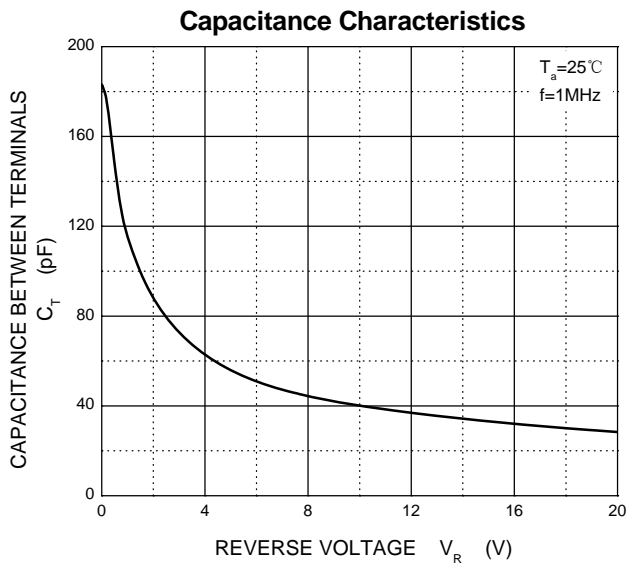
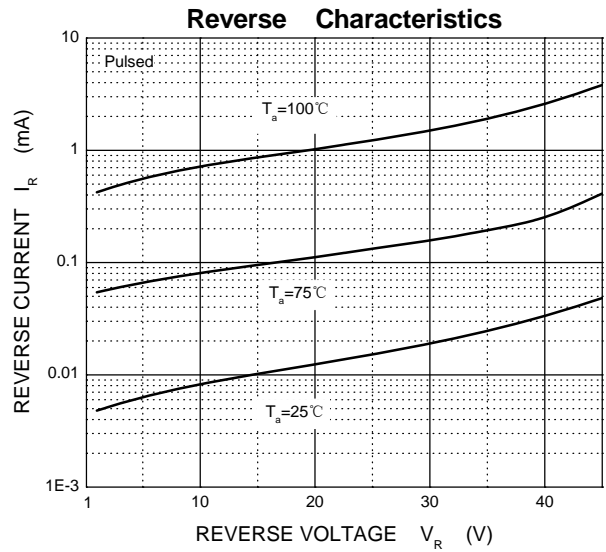
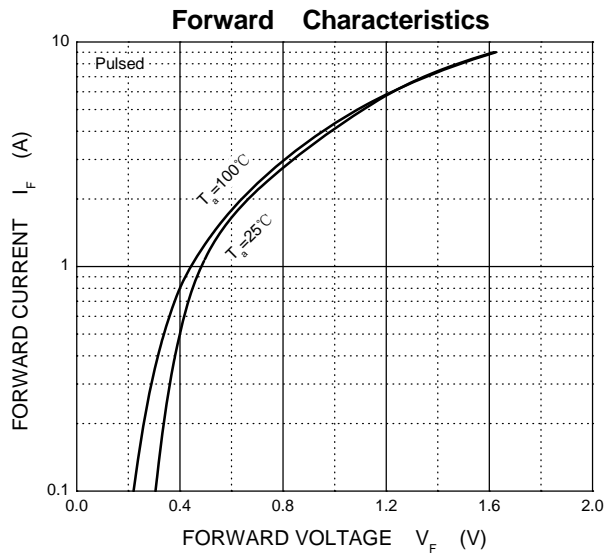
Typical Characteristics

B5818W



Typical Characteristics

B5819W



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123

