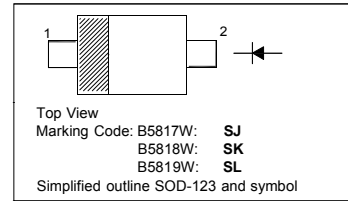


**Features**

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<sub>a</sub> = 25 °C)**

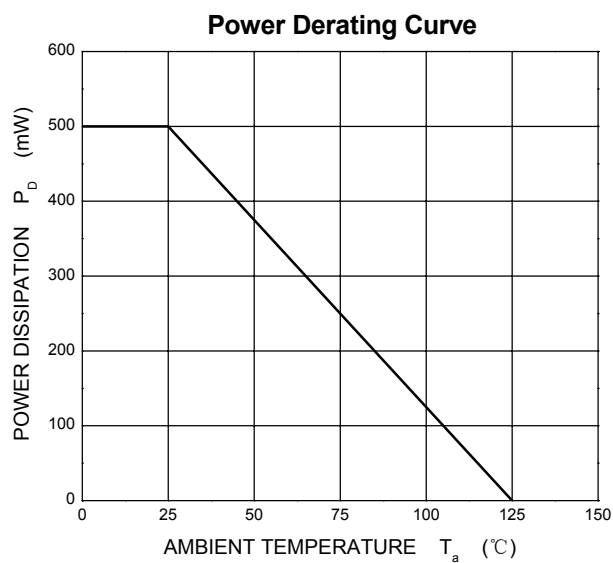
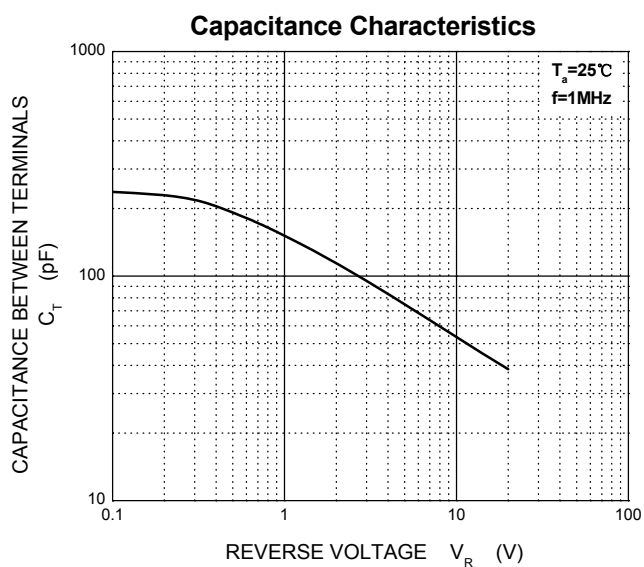
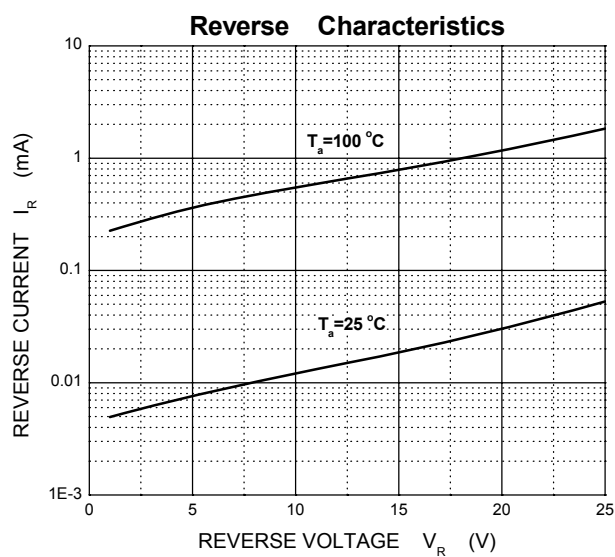
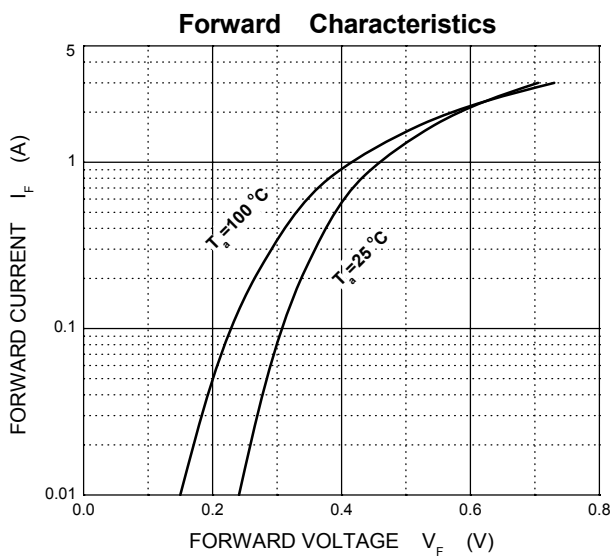
Parameter	Symbol	Value	Unit
Reverse Voltage	B5817W B5818W B5819W	20 30 40	V
Average Forward Rectified Current	I <sub>F(AV)</sub>	1	A
Non-Repetitive Peak Forward Surge Current (8.3 ms Single Half Sine-Wave)	I <sub>FSM</sub>	25	A
Power Dissipation	P <sub>tot</sub>	500	mW
Operating Temperature Range	T 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

**Characteristics at T<sub>a</sub> = 25 °C**

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 1 mA	B5817W B5818W B5819W	20 30 40	- - -	V
Reverse Current at V <sub>R</sub> = 20 V at V <sub>R</sub> = 30 V at V <sub>R</sub> = 40 V at V <sub>R</sub> = 4 V at V <sub>R</sub> = 6 V	B5817W B5818W B5819W B5819W B5819W	- - - - -	1 1 1 0.05 0.075	mA
Forward Voltage at I <sub>F</sub> = 0.1 A at I <sub>F</sub> = 1 A  at I <sub>F</sub> = 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 <sub>R</sub> = 4 V, f = 1 MHz	C <sub>tot</sub>	-	120	pF

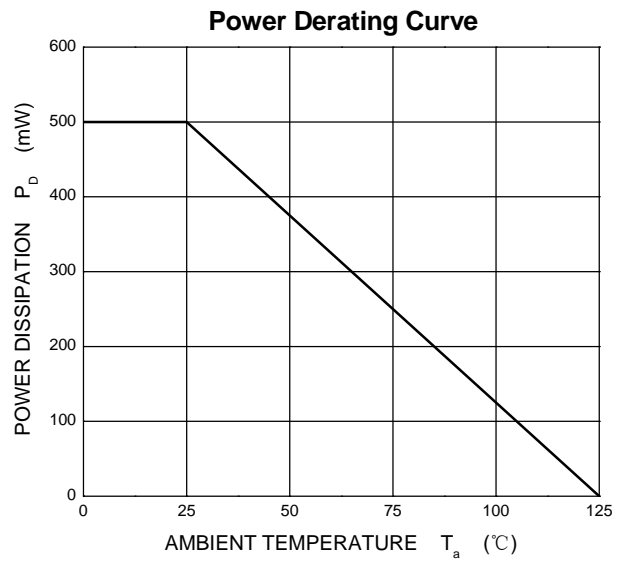
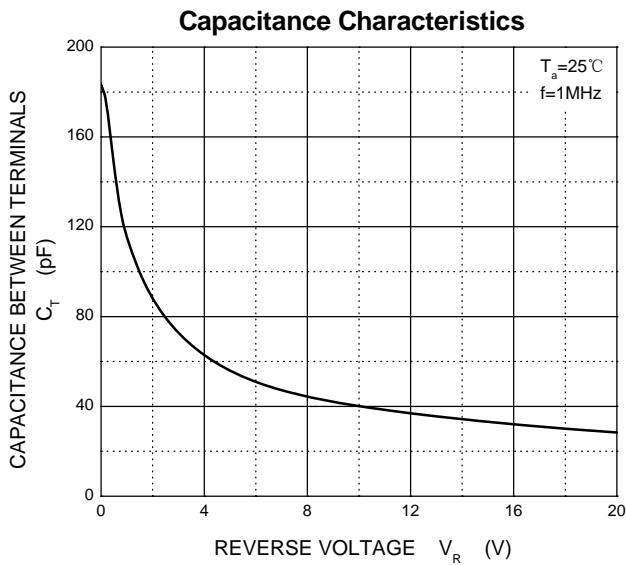
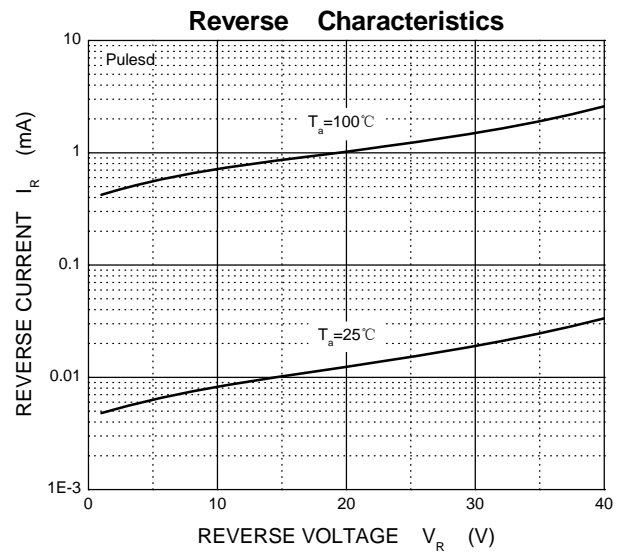
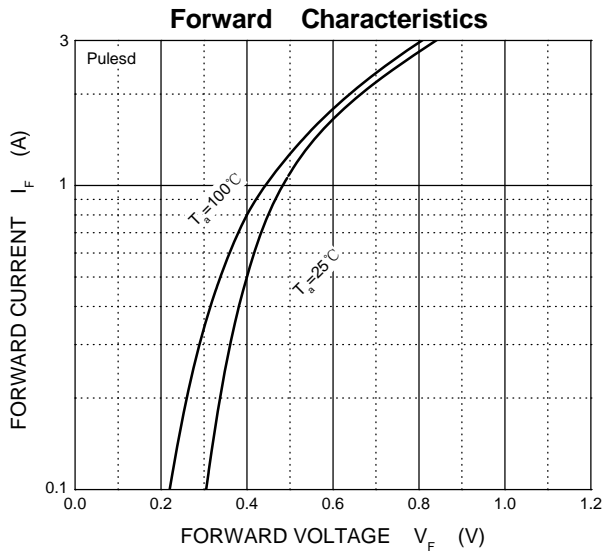
**Typical Characteristics**

**B5817W**



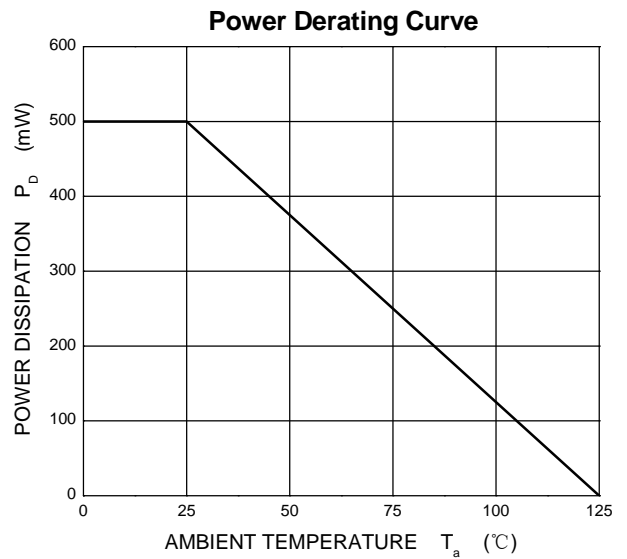
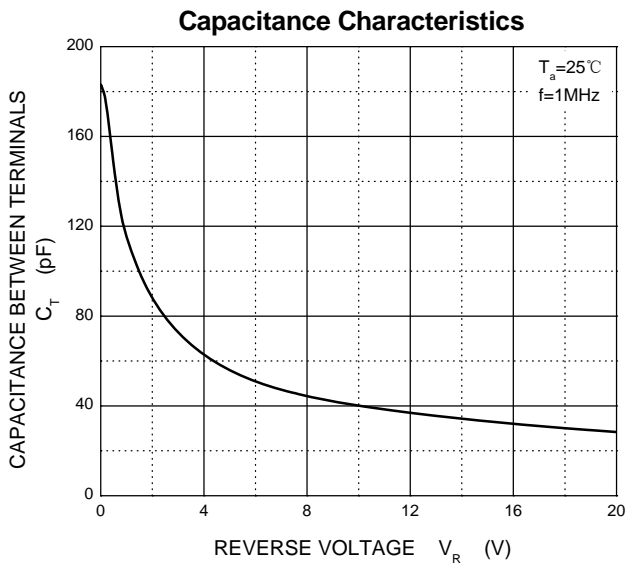
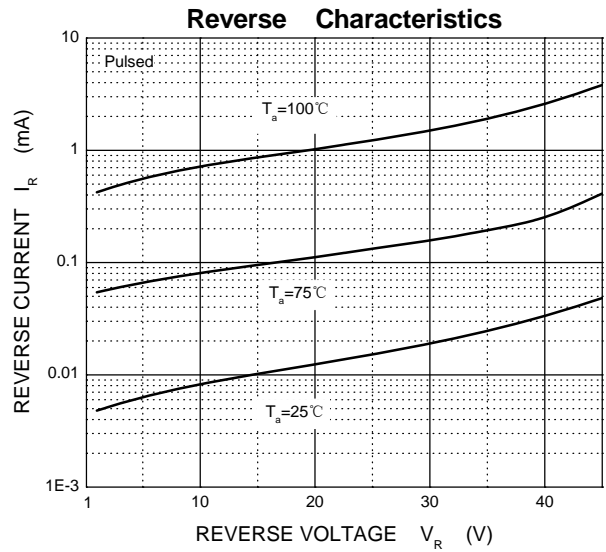
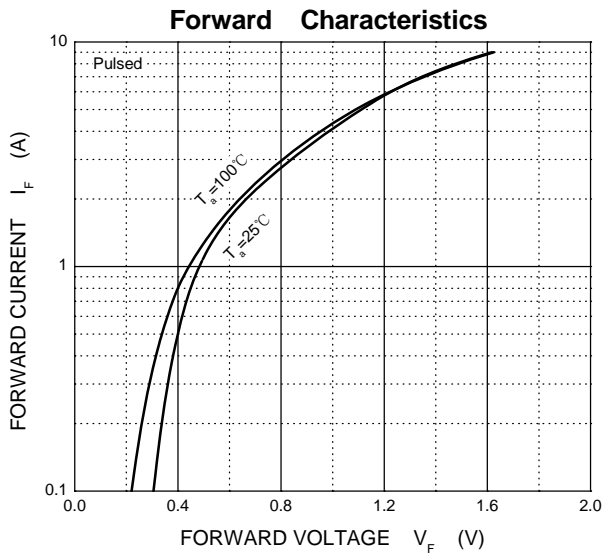
**Typical Characteristics**

**B5818W**



**Typical Characteristics**

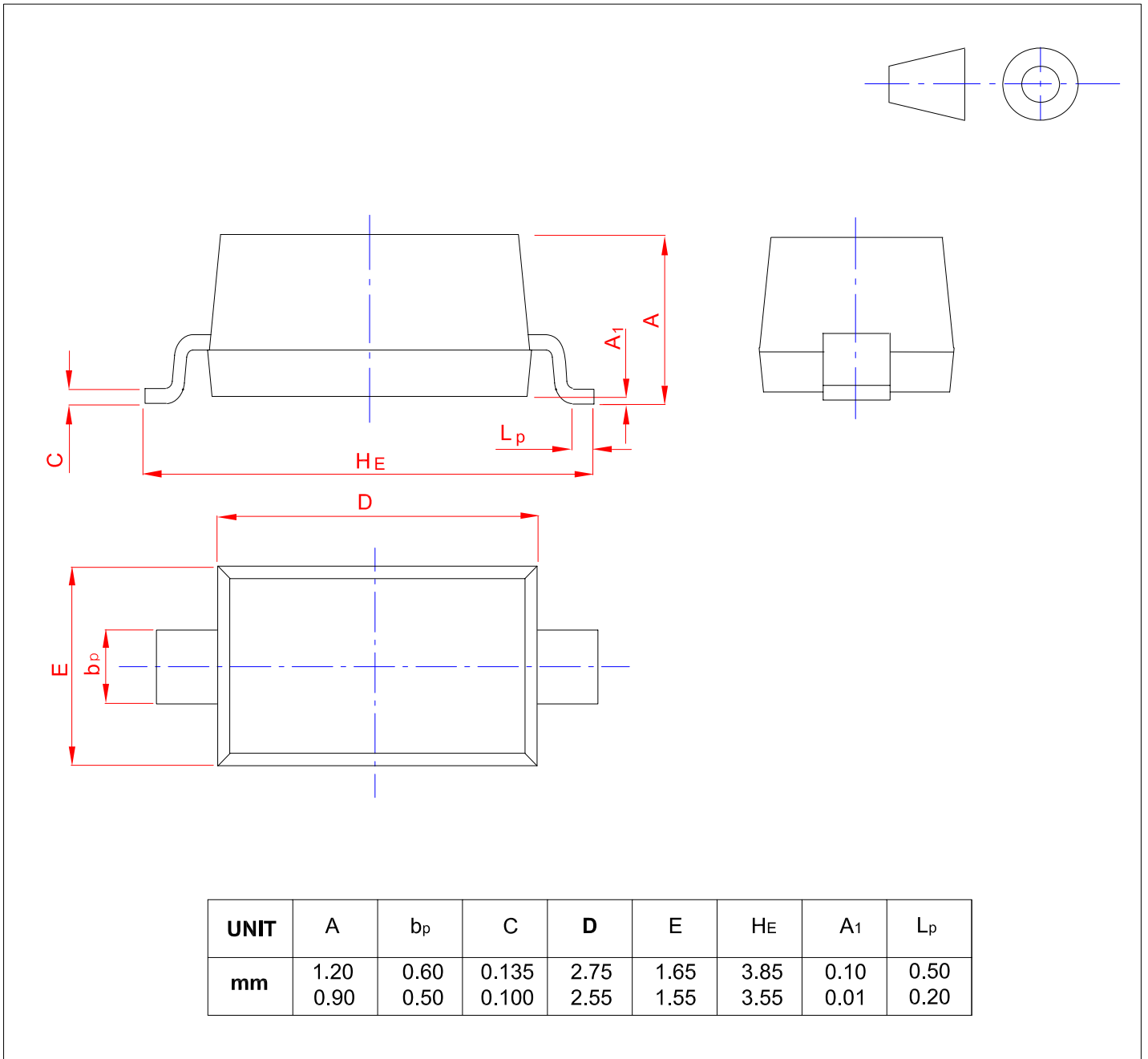
**B5819W**



**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-123



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