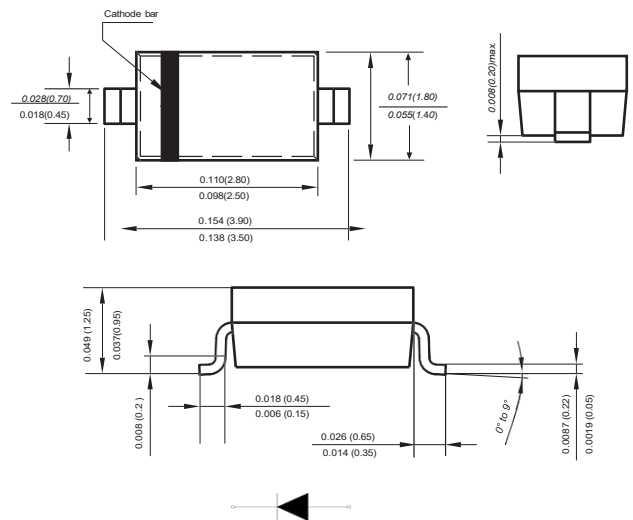


SCHOTTKY DIODES

Features

- ◆ Fast switching speed
- ◆ Surface mount package ideally suited
- ◆ for automatic insertion
- ◆ For general purpose switching applications High
- ◆ conductance

SOD-123



Dimensions in inches and (millimeters)

Parameter	Symbols	B5817W	B5818W	B5819W	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS voltage	V_{RMS}	14	21	28	V
Average rectified output current	I_0	1			A
Continuous Forward Current	I_{FRM}	1.5			A
Non-reptitive Peak Forward Surge Current at 8.3ms	I_{FSM}	25			A
Power Dissipation	P_D	500			mW
Typical Thermal Resistance ⁽¹⁾	R_{GJA}	160			°C/W
Operating Temperature Range	T_J	-55 ~ +125			°C
Storage Temperature Range	T_{stg}	-55 ~ +125			°C

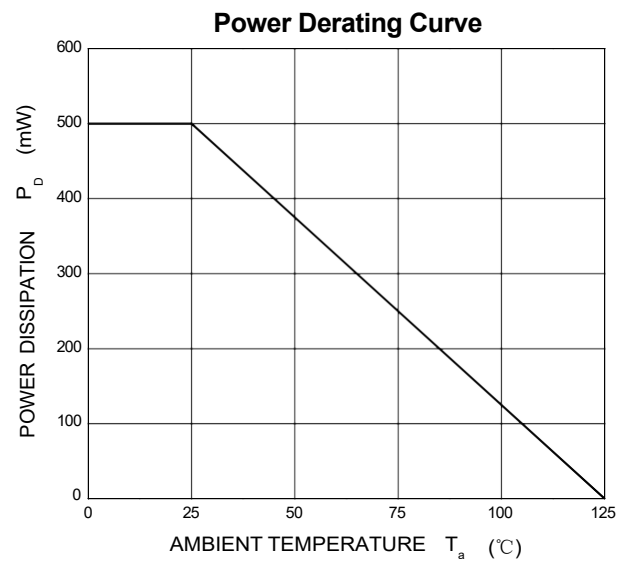
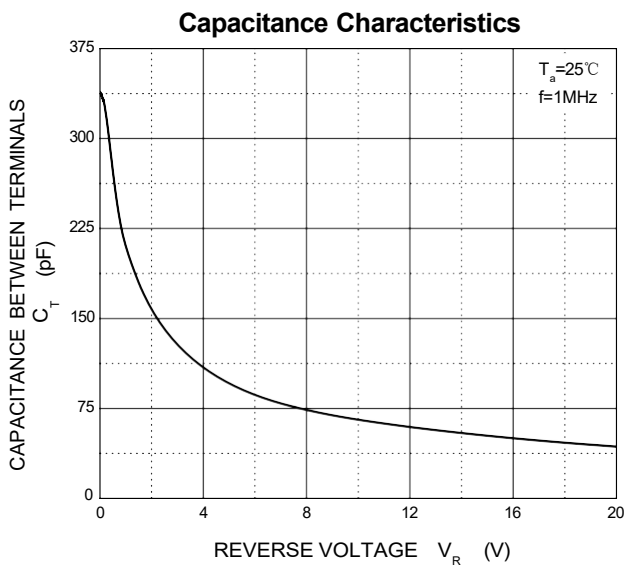
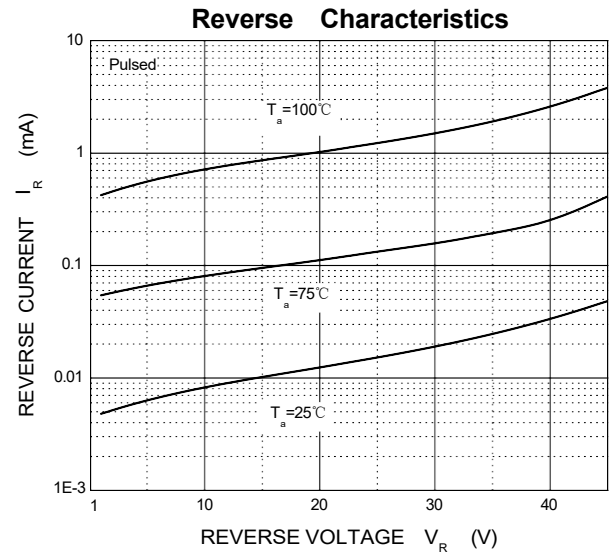
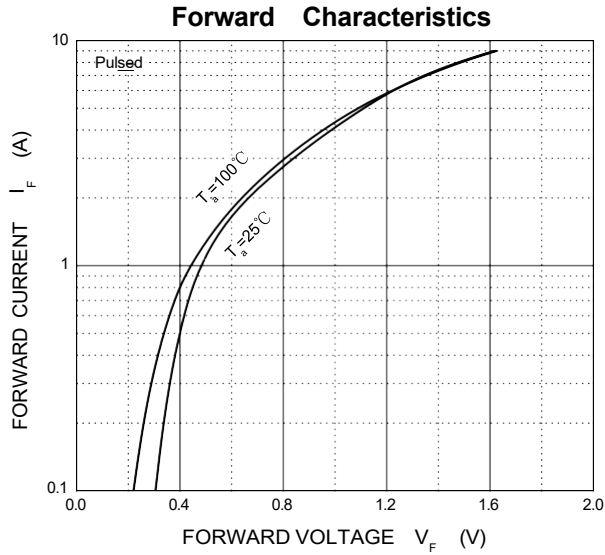
Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

(1) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Parameter	Symbols	B5817W	B5818W	B5819W	Units
Reverse BreakdownVoltage at I _R =1mA	V _{(BR)R}	20	30	40	V
Maximum Forward Voltage at 1A at 3A	V _F	0.45 0.75	0.55 0.875	0.60 0.90	V
Peak Reverse Current at V _R =20V T _j =25°C T _j =100°C	I _R	1.0 10.0			mA
Typical Junction Capacitance	C _j	110			pF
Non-Repetitive peak reverse voltage	V _{RM}	20	30	40	V

Typical Characteristics

B5819W



The curve above is for reference only.