



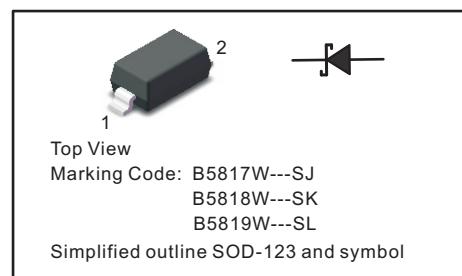
## SCHOTTKY BARRIER RECTIFIERS

### FEATURES

- Metal silicon junction, majority carrier conduction
- Guarding for overvoltage protection
- Low power loss, high efficiency
- High current capability
- low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### MECHANICAL DATA

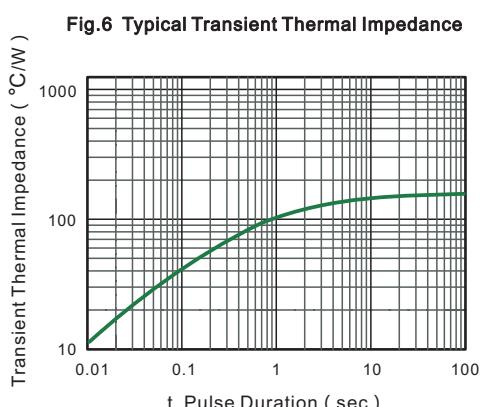
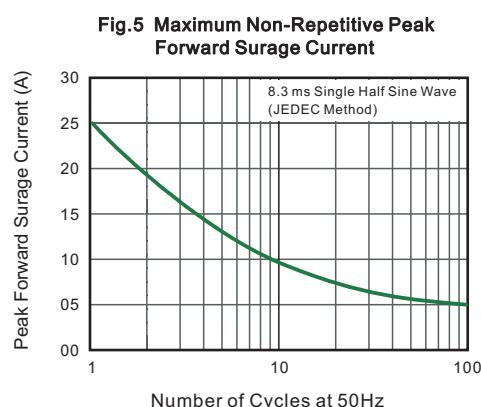
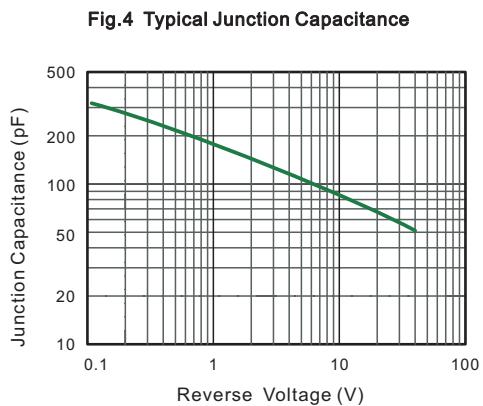
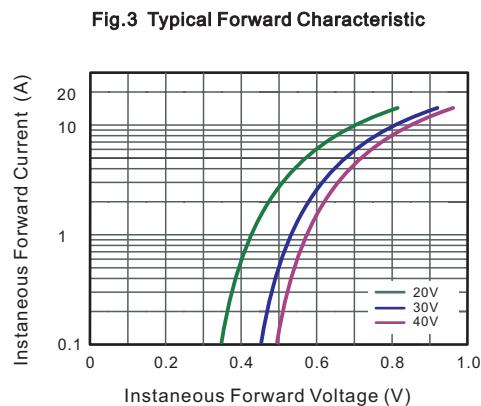
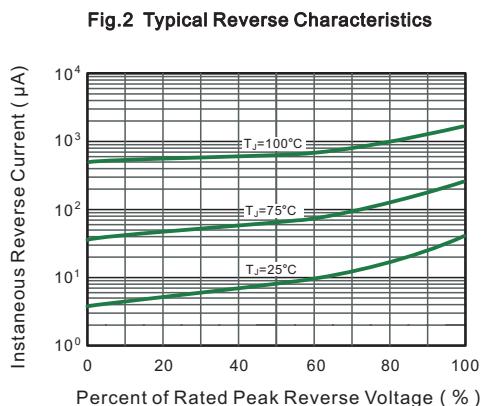
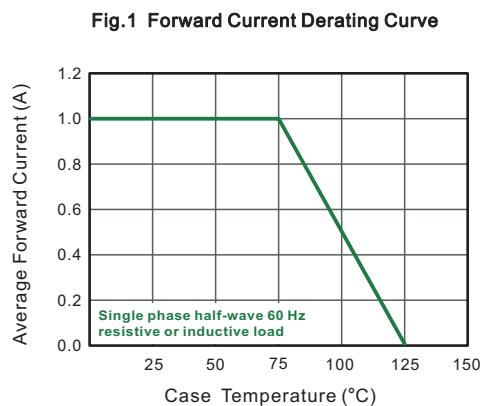
- Case: SOD-123
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg/0.00056oz

### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

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
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	$I_{FSM}$	25			A
Maximum Instantaneous Forward Voltage at 1 A at 3 A	$V_F$	0.45 0.75	0.550 0.875	0.60 0.90	V
Maximum Instantaneous Reverse Current at $T_j = 25^\circ\text{C}$ Rated DC Reverse Voltage $T_j = 100^\circ\text{C}$	$I_R$	1 10			mA
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	160			°C/W
Typical Junction Capacitance	$C_j$	110			pF
Storage and Operating Junction Temperature Range	$T_j, T_{stg}$	-55 ~ +125			°C

( 1 ) P.C.B. mounted with 5X5mm copper pad areas.

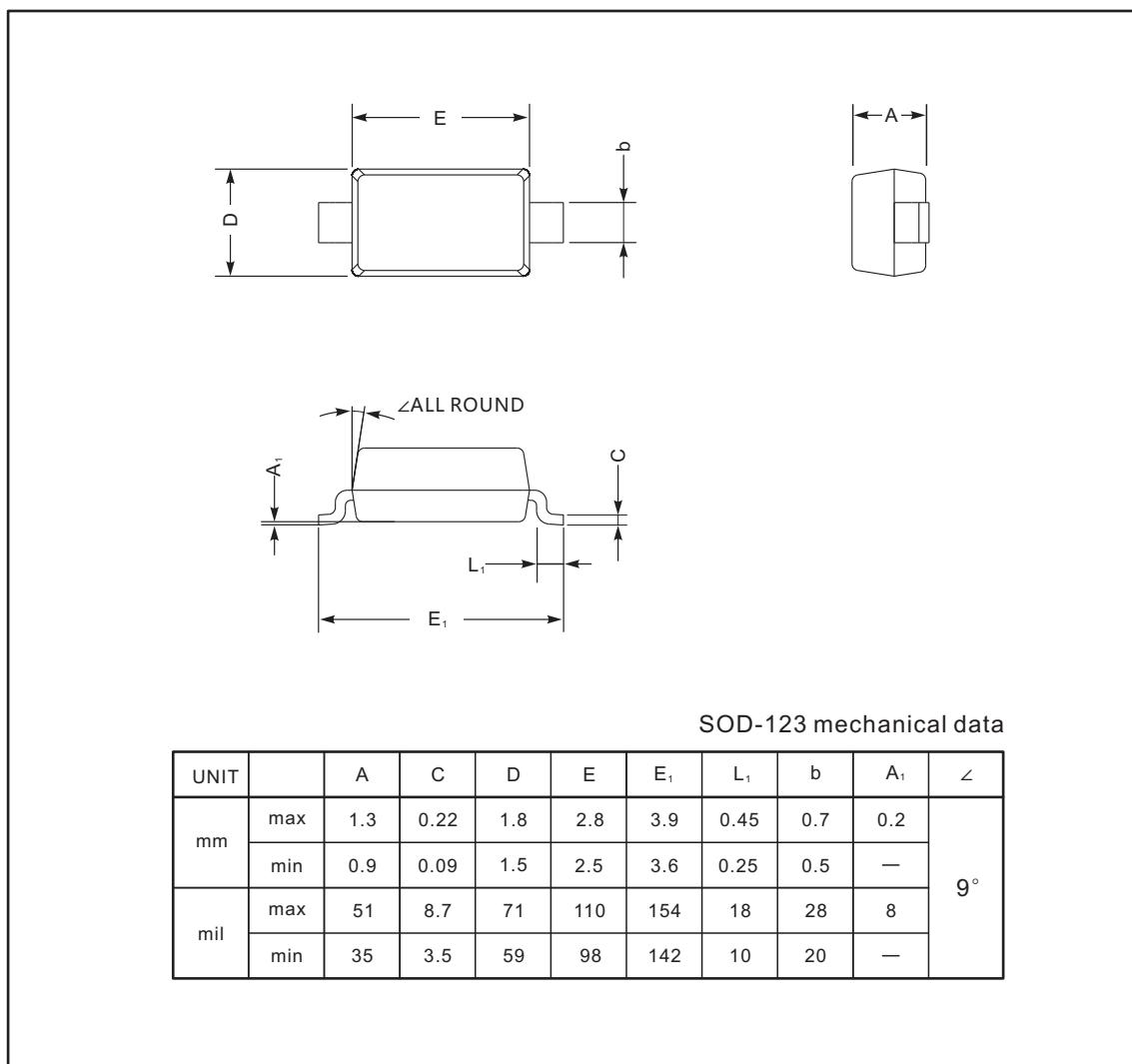




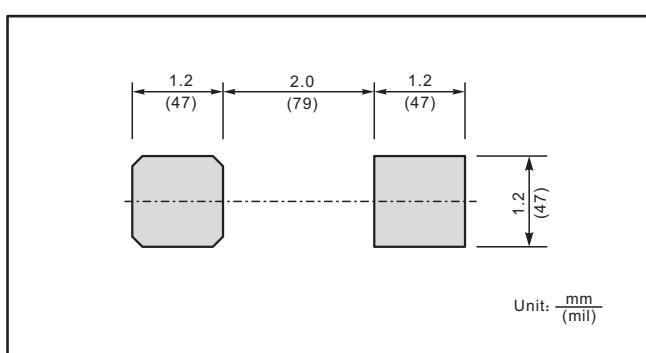
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



### The recommended mounting pad size



### Marking

Type number	Marking code
B5817W	SJ
B5818W	SK
B5819W	SL