

B5817W thru B5819W

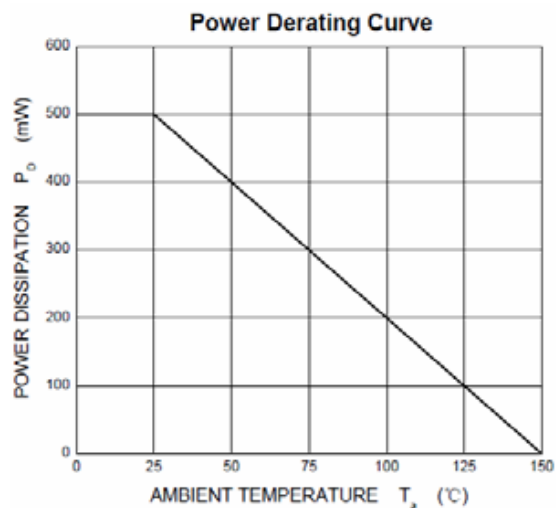
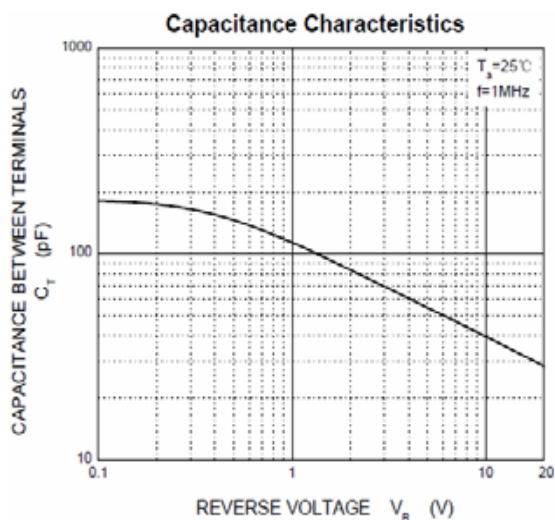
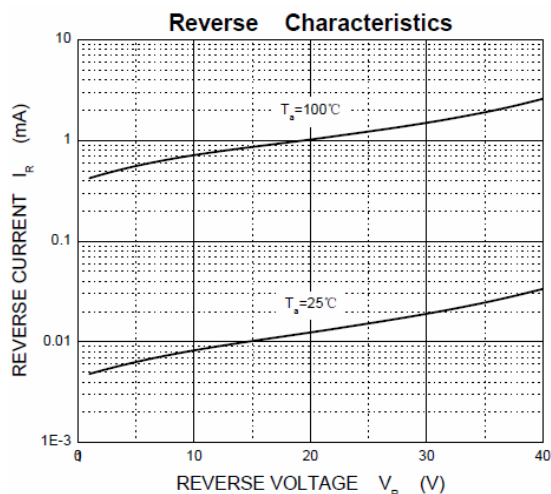
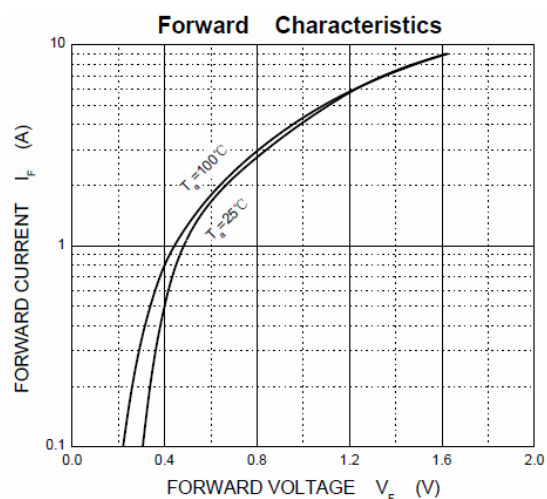
Surface Mount Schottky Rectifier

Reverse Voltage 20V - 40V Forward Current 1A

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameters	Symbol	Test Conditions	B5817W	B5818W	B5819W	Unit
Maximum Forward Voltage	V_F	$I_F=1.0\text{A}$	0.450	0.550	0.550	V
		$I_F=3.0\text{A}$	0.750	0.875	0.900	V
Maximum Reverse Breakdown Voltage	V_R	$I_R=1\text{mA}$	20	30	40	V
Maximum Reverse Current	I_R	$V_R=20\text{V}$ B5817W $V_R=30\text{V}$ B5818W $V_R=40\text{V}$ B5819W	1.0			mA
Typical Junction Capacitance	C_J	$V_R=4.0\text{V}$, $f=1\text{MHz}$	120			pF

Typical Characteristic Curves

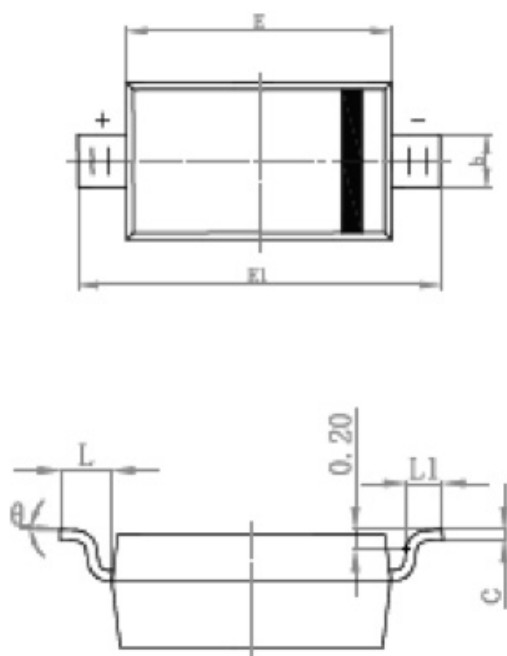


B5817W thru B5819W

Surface Mount Schottky Rectifier
Reverse Voltage 20V - 40V Forward Current 1A

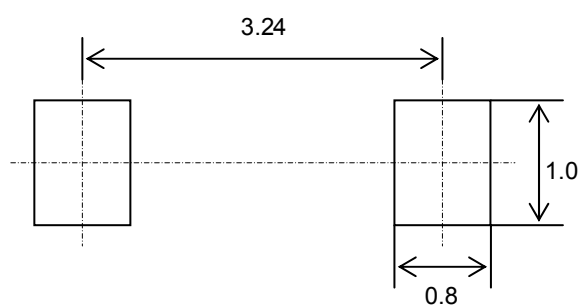
Package Outline Dimensions

SOD-123



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°		8°	

Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.