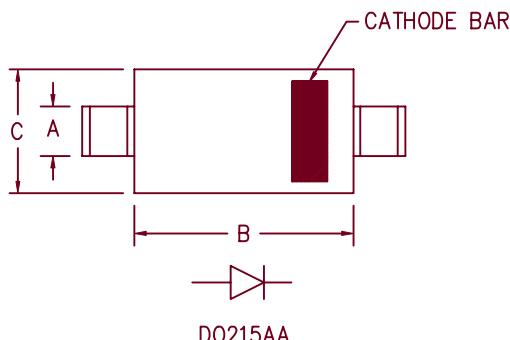


1 Amp Schottky Rectifier

5817SMG — 5819SMG



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.075	.095	1.90	2.41	
E	.270	.290	6.86	7.37	
F	.015	.030	.381	.762	

Microsemi
Catalog Number

Working
Peak Reverse
Voltage

Repetitive
Peak Reverse
Voltage

5817SMG 20V
5818SMG 30V
5819SMG 40V

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- High Reliability
- High Current Capability
- Surface mount package

Electrical Characteristics

	5817SMG	5818SMG	5819SMG	
Average forward current	I _{F(AV)}	1A	1A	1A
Lead Temperature		136°C	133°C	133°C
Maximum surge current	I _{FSM}	50A	50A	50A
Max peak forward voltage	V _{FM}	.32V	.37V	.37V
Max peak forward voltage	V _{FM}	.45V	.55V	.55V
Max peak forward voltage	V _{FM}	.65V	.85V	.85V
Max peak reverse current	I _{RM}	1mA	1mA	1mA
Typical junction capacitance	C _J	105pF	50pF	50pF

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	T _{STG}	-55°C to 150°C
Operating junction temp range	T _J	-55°C to 150°C
Maximum thermal resistance	R _{θJL}	25°C/W Junction to Lead
Weight		.0047 ounces (.013 grams) typical

5817SMG

Figure 1
Typical Forward Characteristics

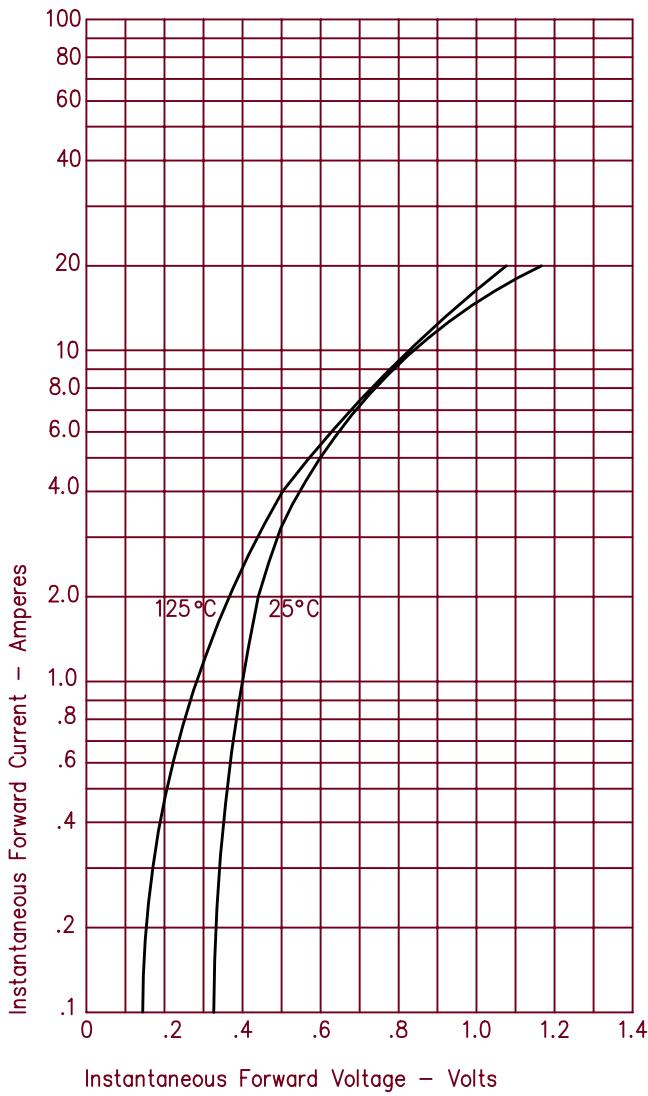


Figure 3
Typical Junction Capacitance

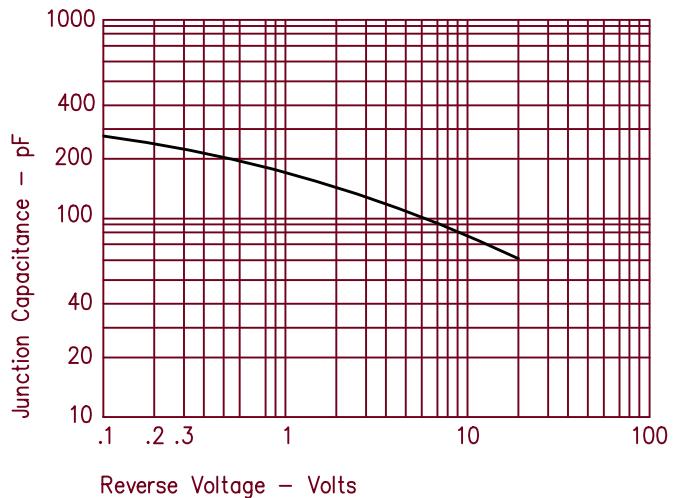
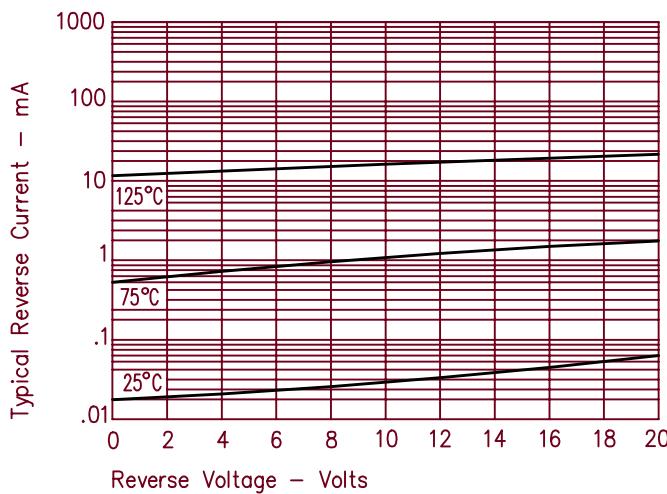


Figure 2
Typical Reverse Characteristics



5818SMG & 5819SMG

Figure 1
Typical Forward Characteristics

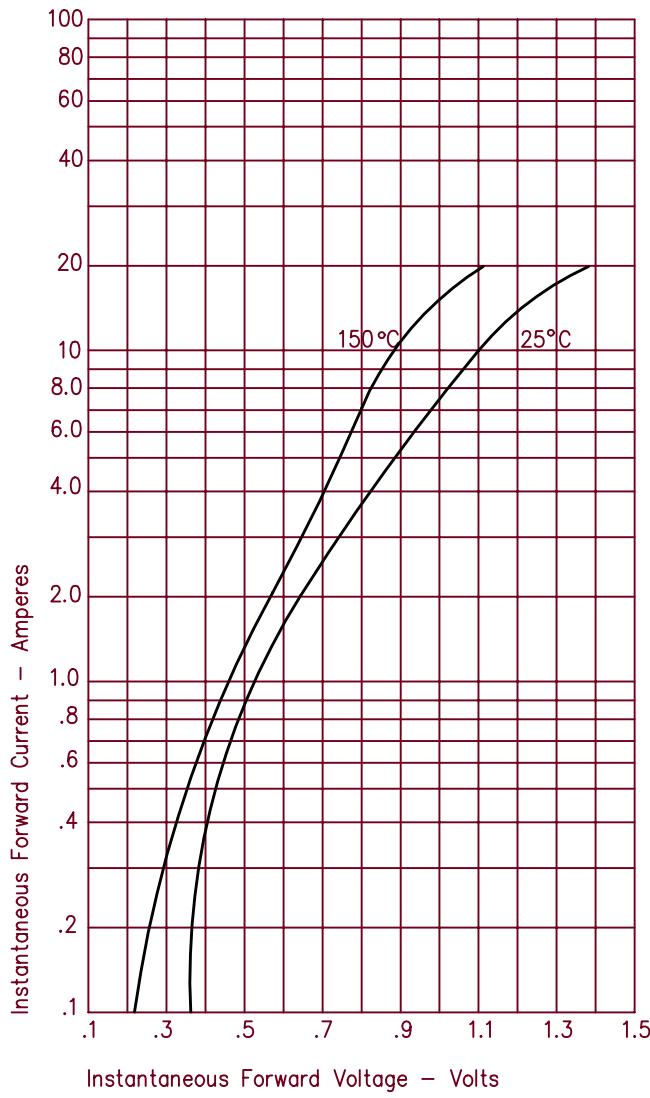


Figure 2
Typical Reverse Characteristics

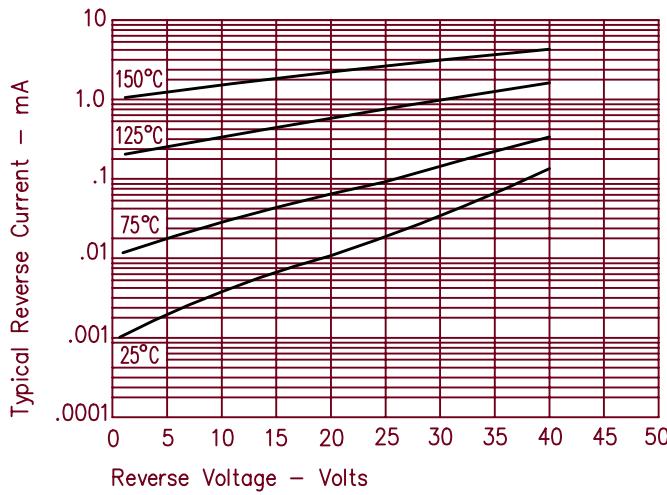


Figure 3
Typical Junction Capacitance

