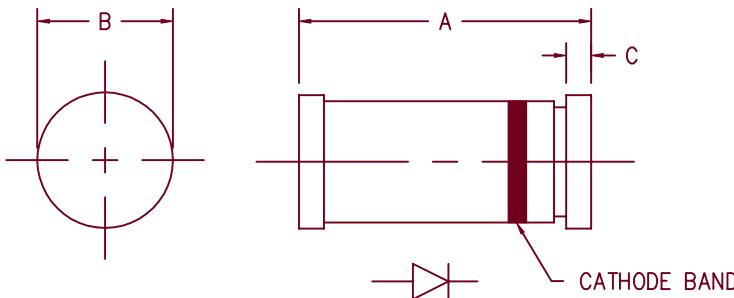


1 Amp Schottky Rectifier

5817SM, 5818SM, 5819SM



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.189	.205	4.80	5.20	
B	.094	.105	2.39	2.66	Dia.
C	.016	.022	.41	.55	

GLASS HERMETIC D0213AB

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
5817SM	20V	20V
5818SM	30V	30V
5819SM	40V	40V

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

Electrical Characteristics

		5817SM	5818SM	5819SM	
Average forward current	I F(AV)	1A	1A	1A	
End Cap Temperature		130°C	125°C	125°C	Square wave, $R_{\theta JEC} = 45$ °C/W
Maximum surge current	I FSM	50A	50A	50A	8.3ms, half sine, $T_J = 150$ °C
Max peak forward voltage	V FM	.36V	.39V	.39V	$I_{FM} = 0.1A; T_J = 25$ °C*
Max peak forward voltage	V FM	.45V	.55V	.55V	$I_{FM} = 1.0A; T_J = 25$ °C*
Max peak forward voltage	V FM	.65V	.85V	.85V	$I_{FM} = 3.0A; T_J = 25$ °C*
Max peak reverse current	I RM	1mA	1mA	1mA	$V_{RRM}, T_J = 25$ °C
Typical junction capacitance	C J	105pF	50pF	50pF	$V_R = 5.0V, T_J = 25$ °C

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

Thermal and Mechanical Characteristics

Storage temperature range	T STG	-65°C to 150°C
Operating junction temp range	T J	-65°C to 150°C
Maximum thermal resistance	R θJEC	45°C/W Junction to End Cap
Weight		.004 ounces (.012 grams) typical

5817SM

Figure 1
Typical Forward Characteristics

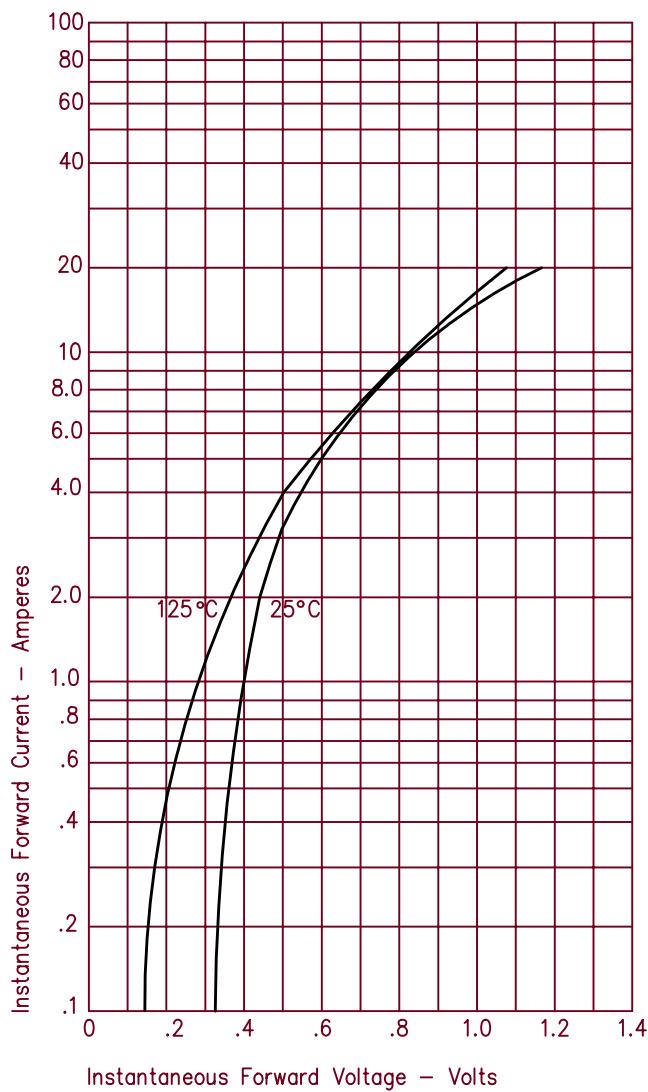


Figure 3
Typical Junction Capacitance

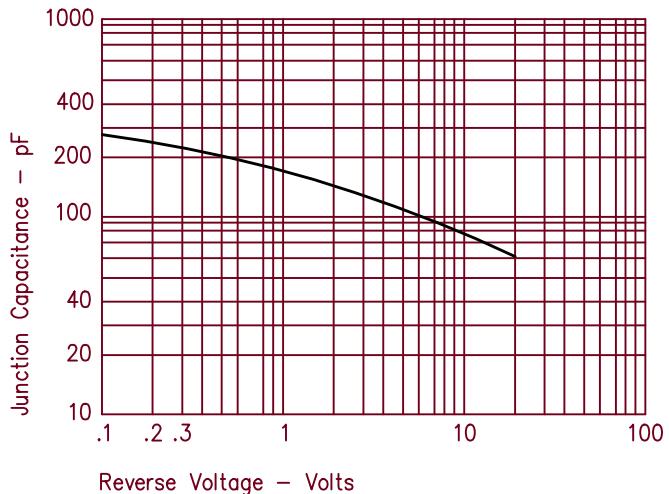
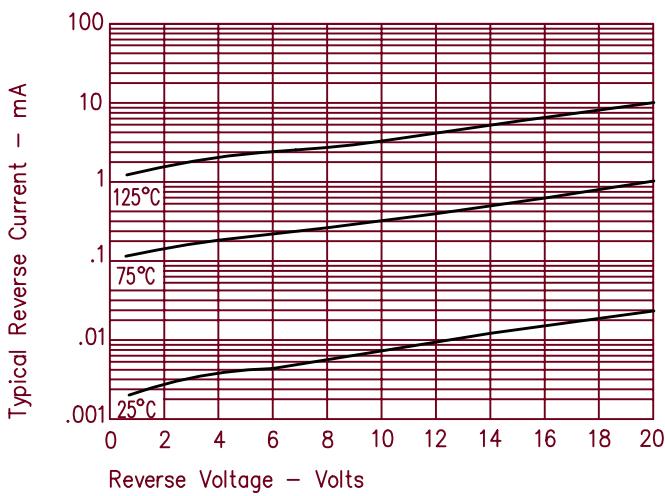


Figure 2
Typical Reverse Characteristics



5818SM & 5819SM

Figure 1
Typical Forward Characteristics

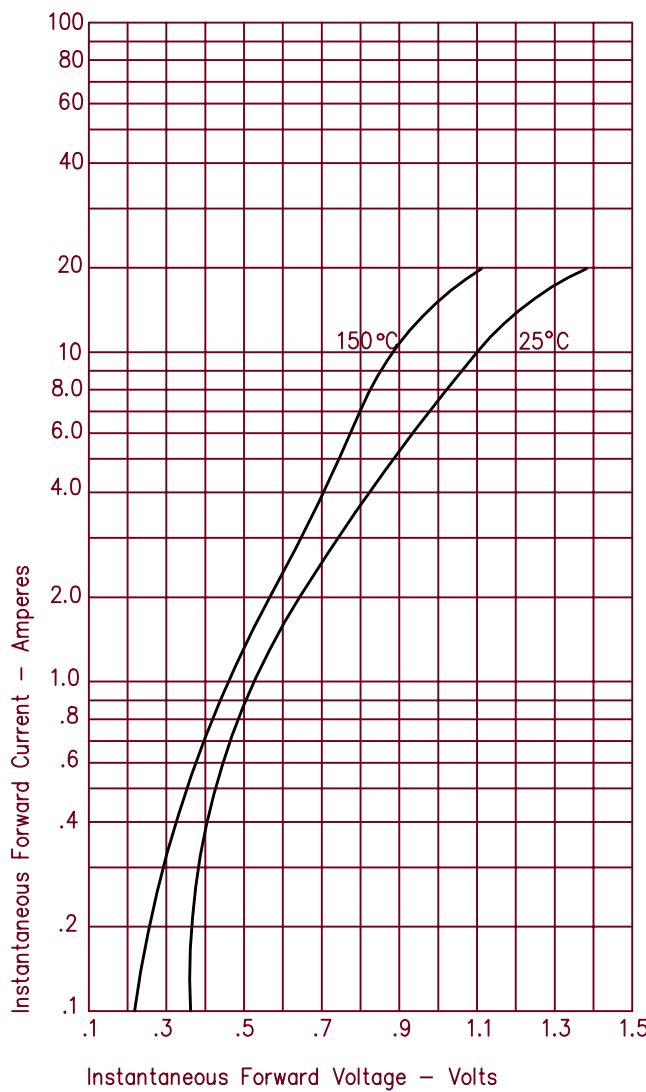


Figure 3
Typical Junction Capacitance

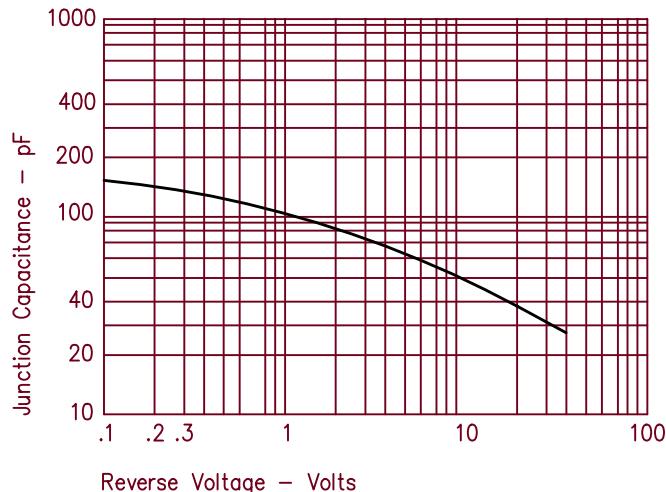


Figure 2
Typical Reverse Characteristics

