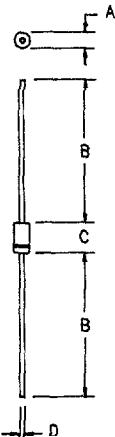


1 Amp Schottky Rectifier

1N5817, 1N5818, 1N5819

C



Dim. Inches		Millimeter			
		Minimum	Maximum	Minimum	Maximum Notes
A	.081	.107	2.057	2.718	Dia.
B	1.10	—	27.94	—	
C	.160	.205	4.064	5.207	
D	.028	.034	.711	.864	Dia.

PLASTIC DO41

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N5817	20V	20V
1N5818	30V	30V
1N5819	40V	40V

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

Electrical Characteristics

	1N5817	1N5818	1N5819	
Average forward current	I F(AV)	1A	1A	1A
Ambient Temperature		135°C	130°C	130°C
Ambient Temperature		120°C	112°C	112°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 STC	-40°C to 150°C
Operating junction temp range	T J	-40°C to 150°C
Maximum thermal resistance	R Θ JL L = 3/8"	68°C/W Junction to Lead
Weight	R Θ JL L = 0	35°C/W Junction to Lead .011 ounces (0.34 grams) typical

PH: 303-469-2161
FAX: 303-466-3775

**Microsemi Corp.
Colorado**

C-43

1N5817

Figure 1
Typical Forward Characteristics

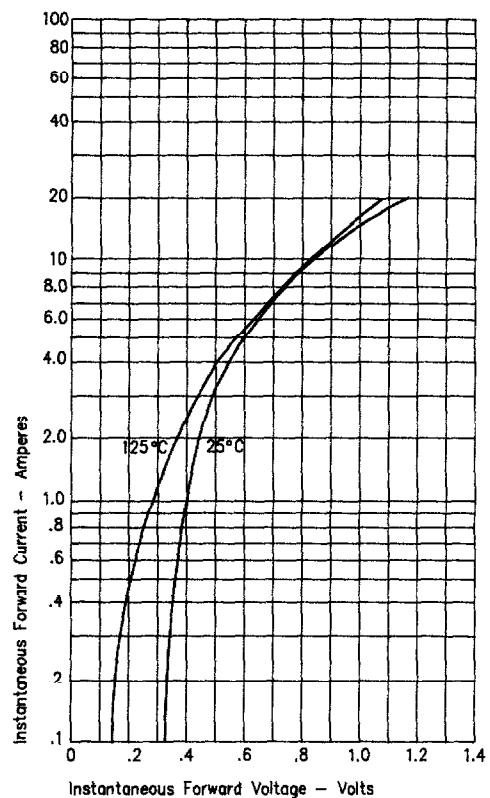


Figure 3
Typical Junction Capacitance

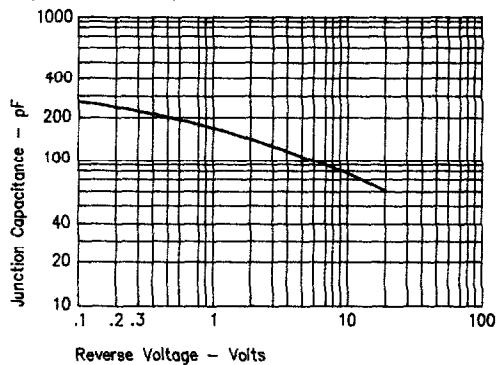
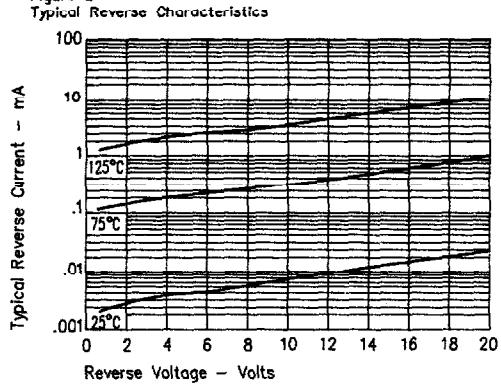


Figure 2
Typical Reverse Characteristics



1N5818 & 1N5819

C
[REDACTED]

Figure 1
Typical Forward Characteristics

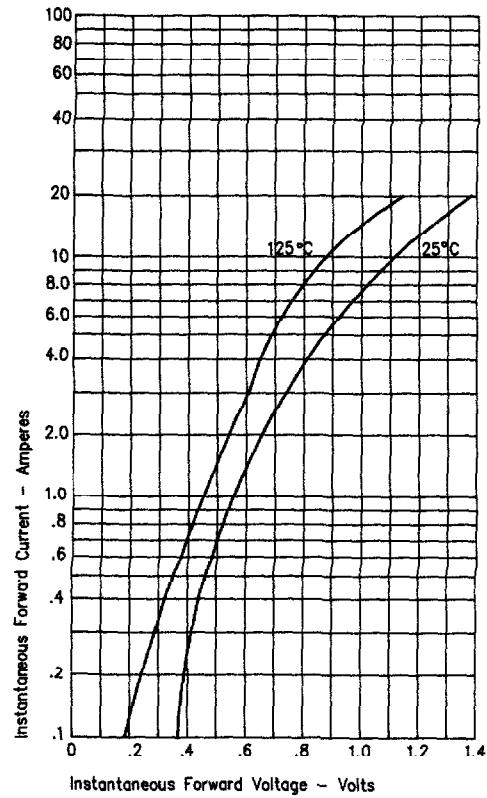


Figure 3
Typical Junction Capacitance

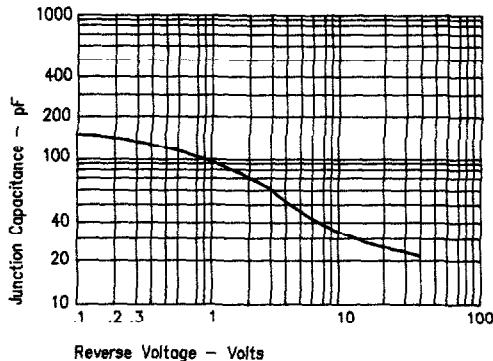


Figure 2
Typical Reverse Characteristics

