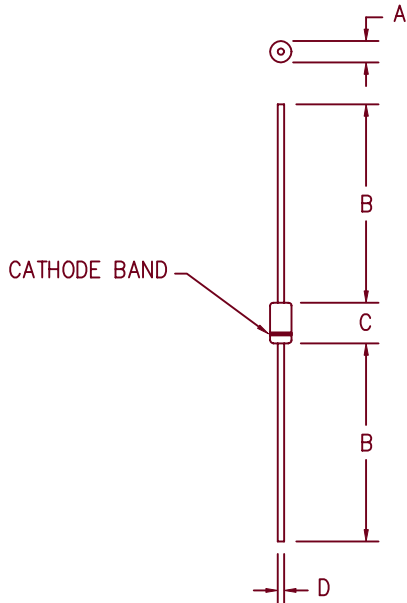


1 Amp Schottky Rectifier

1N5817, 1N5818, 1N5819



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
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 D041

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	R _{θJL} = 15°C/W, L = 1/4" 8.3ms, half sine, T _J = 150°C I _{FM} = 0.1A: T _J = 25°C * I _{FM} = 1.0A: T _J = 25°C * I _{FM} = 3.0A: T _J = 25°C * V _{RRM} , T _J = 25°C V _R = 5.0V, T _J = 25°C
Ambient Temperature		135°C	130°C	130°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 μsec, 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	L = 1/4" R _{θJL}	15°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical

5-23-00 Rev. 3

1N5817

Figure 1
Typical Forward Characteristics

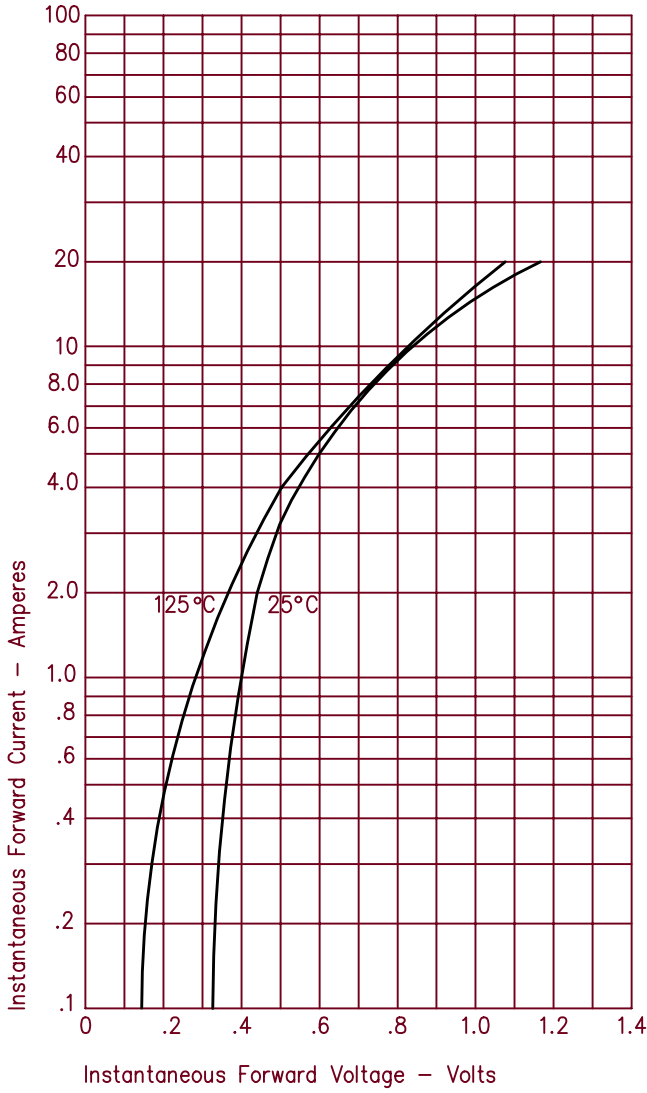


Figure 3
Typical Junction Capacitance

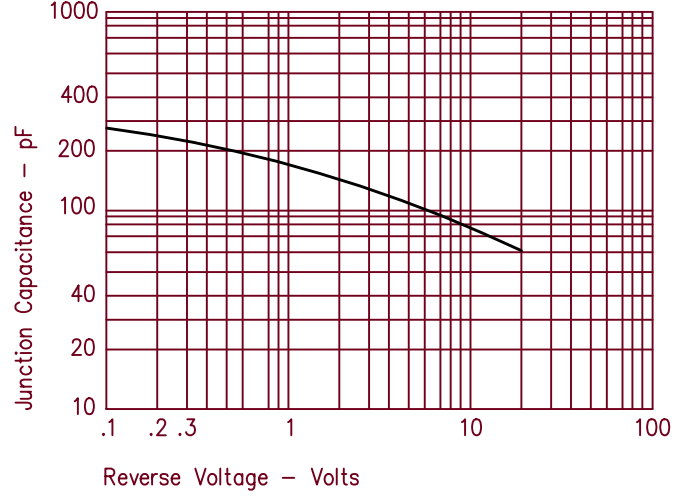
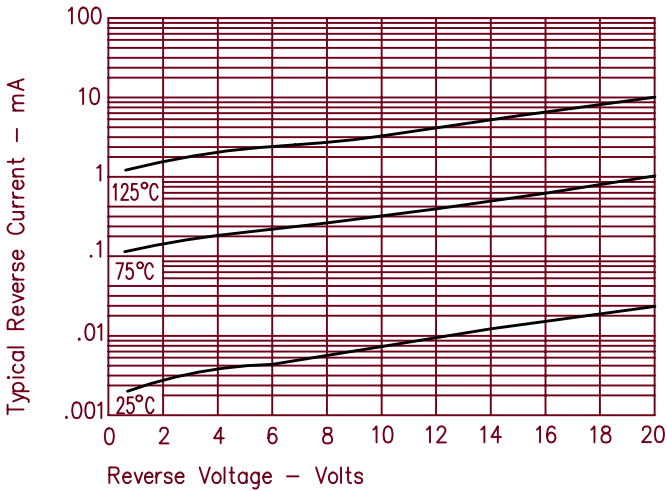


Figure 2
Typical Reverse Characteristics



1N5818 & 1N5819

Figure 1
Typical Forward Characteristics

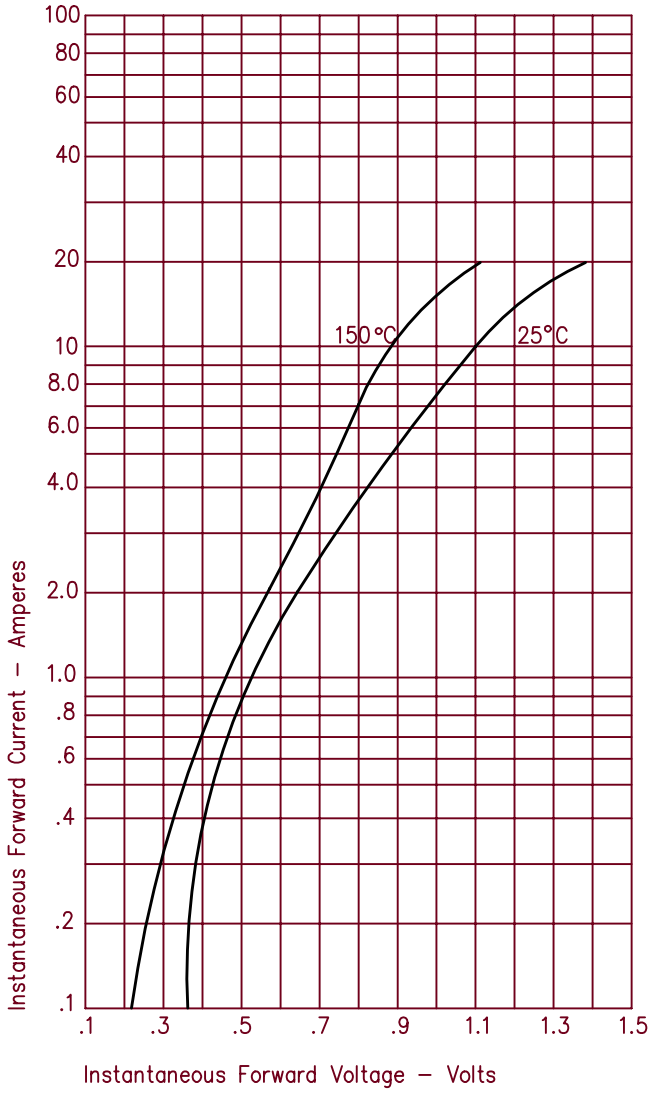


Figure 3
Typical Junction Capacitance

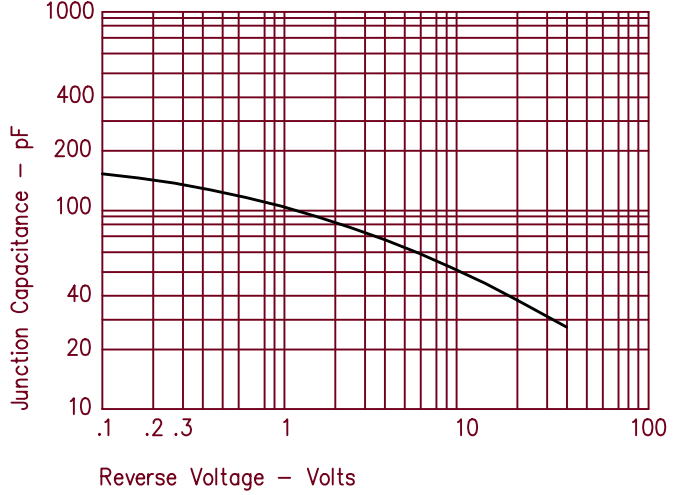


Figure 2
Typical Reverse Characteristics

