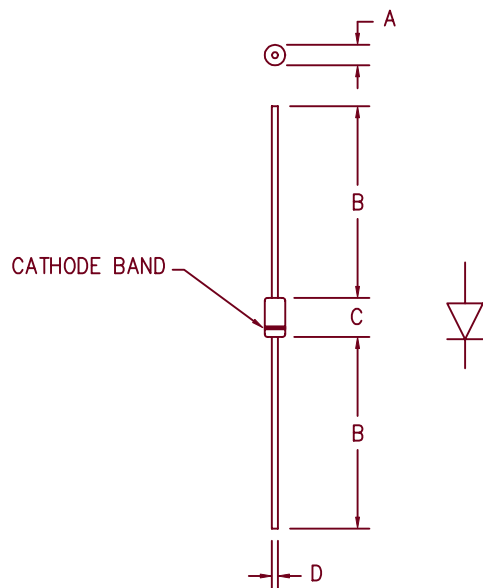


1 Amp Schottky Rectifier

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	Industrial Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N5817	VSK120	20V	20V
1N5818	VSK130	30V	30V
1N5819	VSK140	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	$R_{\theta JL} = 15^\circ C/W, L = 1/4"$
Ambient Temperature		135°C	130°C	130°C	8.3ms, half sine, $T_J = 150^\circ C$
Maximum surge current	I_{FSM}	50A	50A	50A	$I_{FM} = 0.1A: T_J = 25^\circ C^*$
Max peak forward voltage	V_{FM}	.32V	.37V	.37V	$I_{FM} = 1.0A: T_J = 25^\circ C^*$
Max peak forward voltage	V_{FM}	.45V	.55V	.55V	$I_{FM} = 3.0A: T_J = 25^\circ C^*$
Max peak forward voltage	V_{FM}	.65V	.85V	.85V	$V_{RRM}, T_J = 25^\circ C$
Max peak reverse current	I_{RM}	1mA	1mA	1mA	$V_R = 5.0V, T_J = 25^\circ C$
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	$L = 1/4"$ $R_{\theta JL}$	15°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical

5-13-03 Rev. 4

1N5817

Figure 1
Typical Forward Characteristics

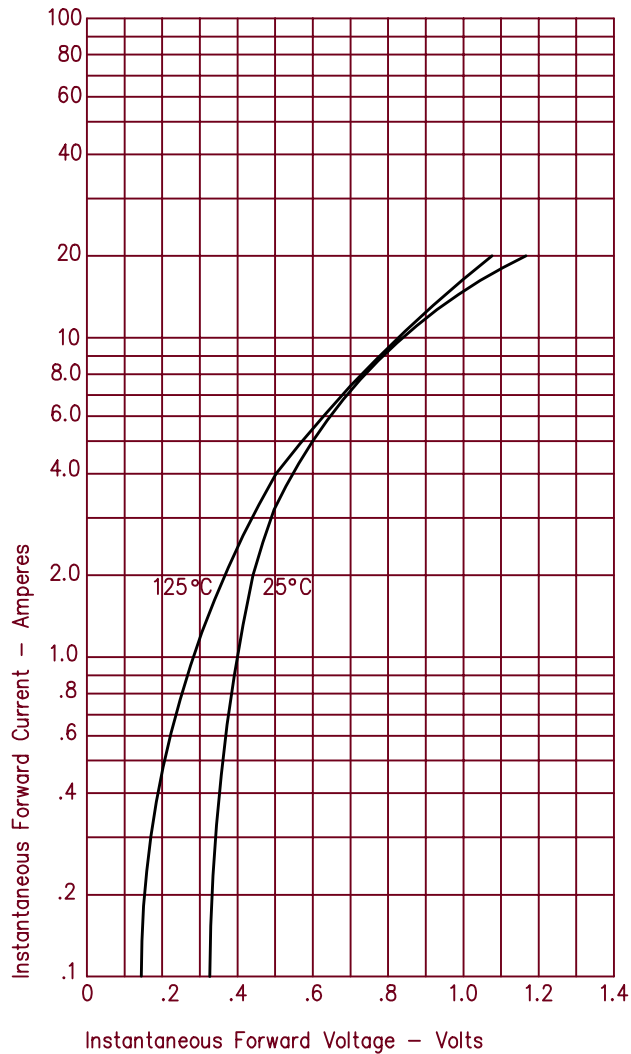


Figure 3
Typical Junction Capacitance

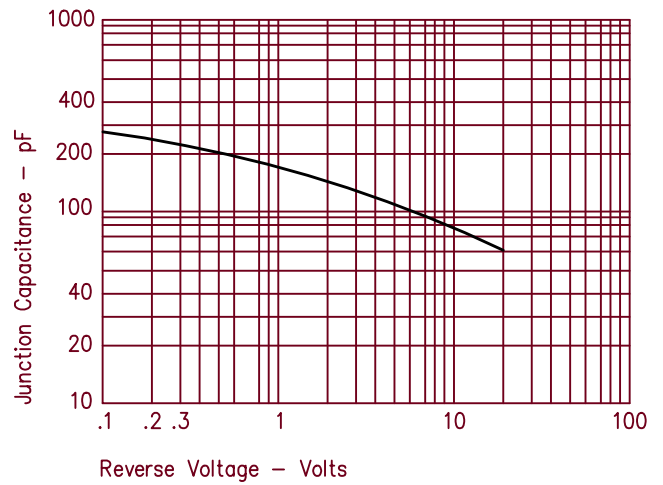
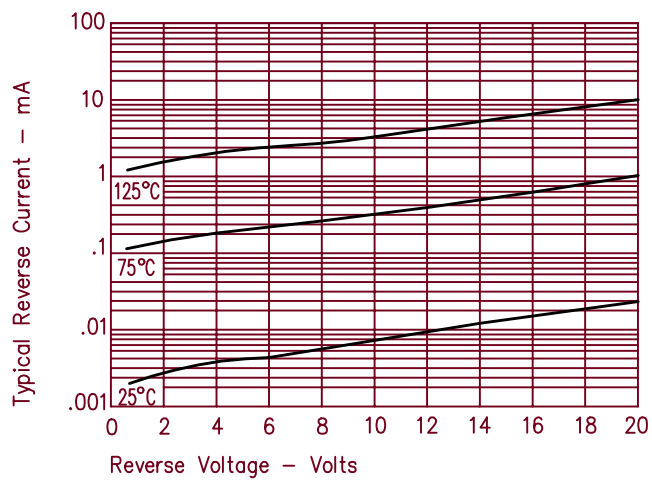


Figure 2
Typical Reverse Characteristics



1N5818 & 1N5819

Figure 1
Typical Forward Characteristics

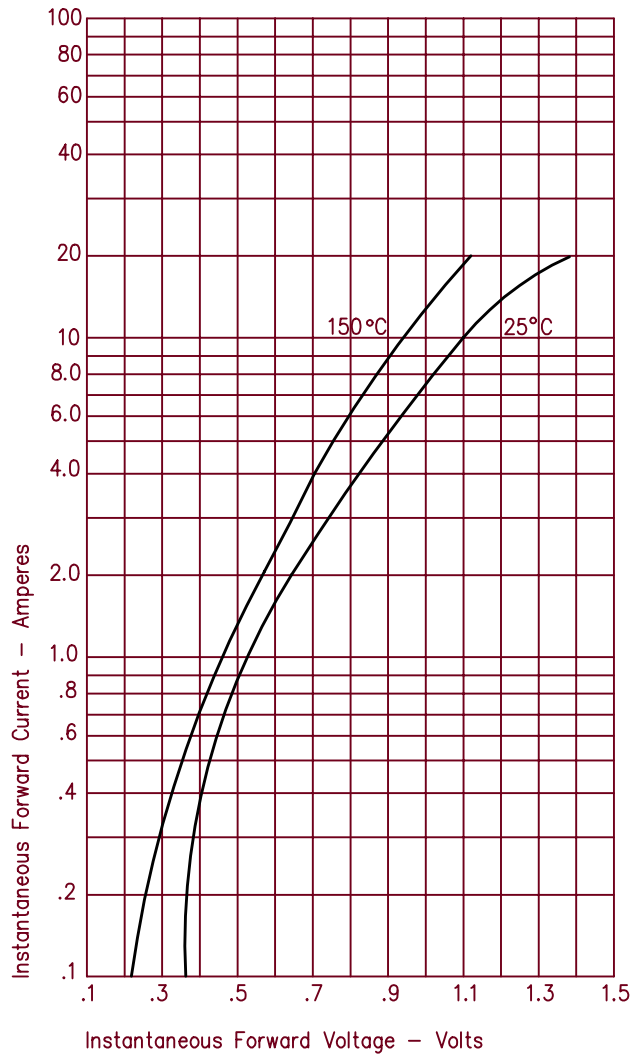


Figure 3
Typical Junction Capacitance

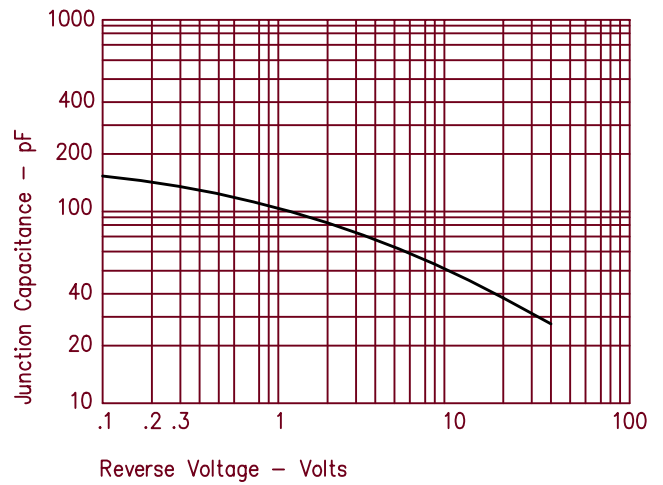


Figure 2
Typical Reverse Characteristics

