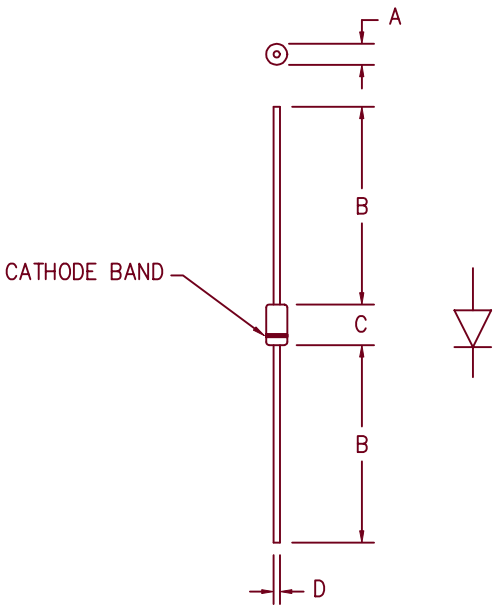
1 Amp Schottky Rectifier

1N5817G,1N5818G,1N5819G



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.

GLASS HERMETIC DO41

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N5817G	20V	20V
1N5818G	30V	30V
1N5819G	40V	40V

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

Electrical Characteristics

		5817G	5818G	5819G	
Average forward current	$I_{F(AV)}$	1A	1A	1A	$R_{\theta JL}$ = 15°C/W, L = 1/4"
Ambient Temperature		135°C	130°C	130°C	
	I_{FSM}	50A	50A	50A	8.3ms, half sine, T_J = 150°C
Maximum surge current	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 forward voltage	I_{RM}	1mA	1mA	1mA	V_{RRM}, T_J = 25°C
Max peak reverse current	C_J	105pF	50pF	50pF	V_R = 5.0V, T_J = 25°C
Typical junction capacitance					

*Pulse test: Pulse width 300 μsec, 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	L = 1/4" $R_{\theta JL}$	15°C/W Junction to Lead
Weight		.012 ounces (0.38 grams) typical

2-7-00 Rev. 1

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1N5818G & 1N5819G

Figure 1
Typical Forward Characteristics

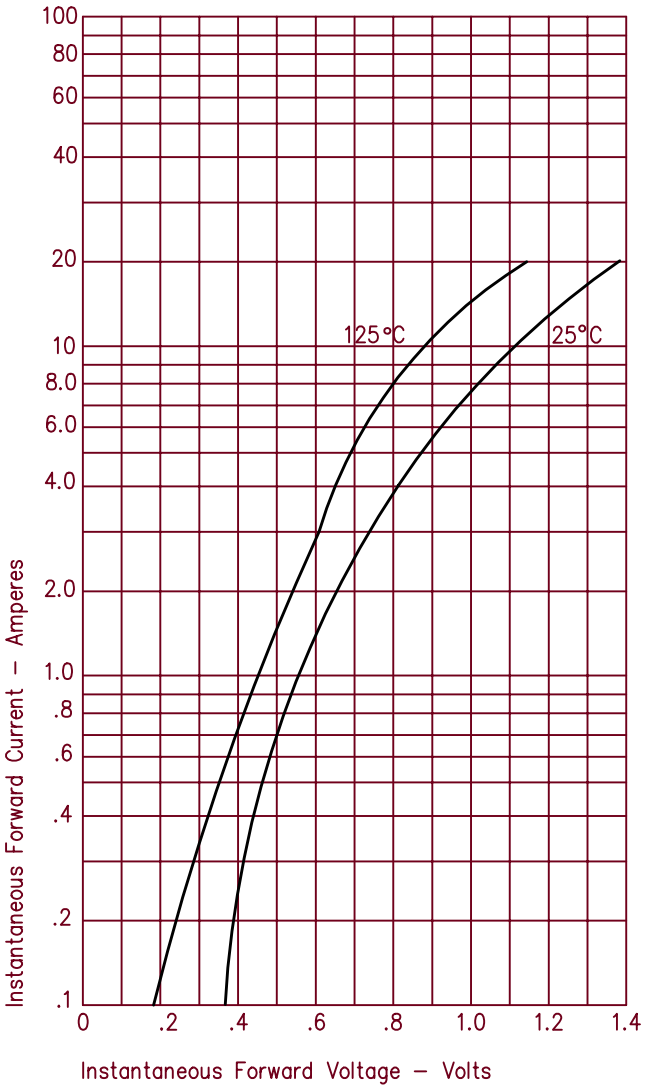


Figure 2
Typical Reverse Characteristics

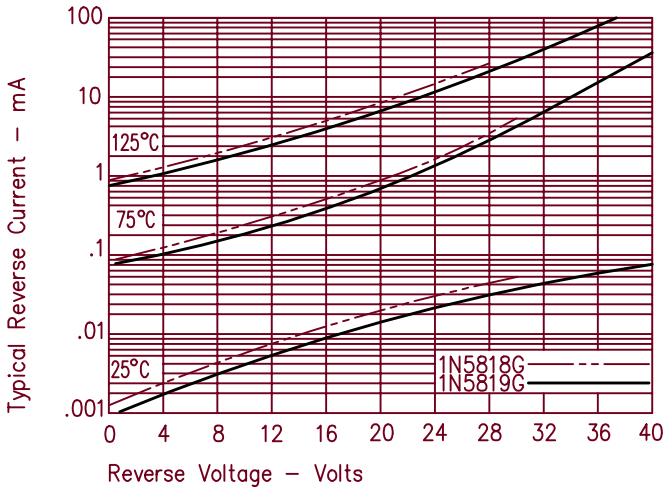
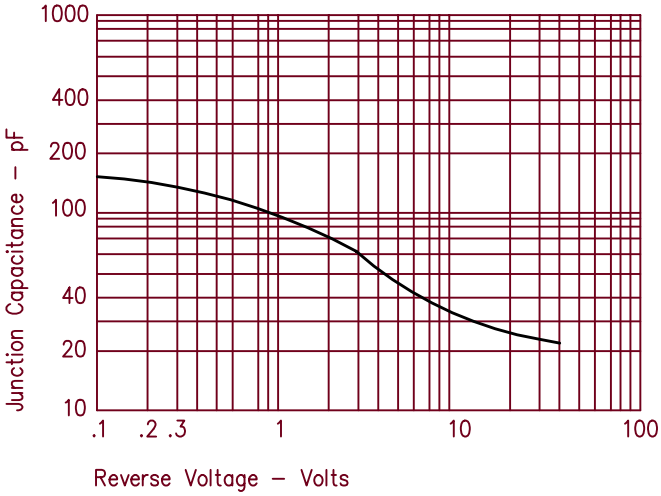


Figure 3
Typical Junction Capacitance



1N5817G

Figure 1
Typical Forward Characteristics

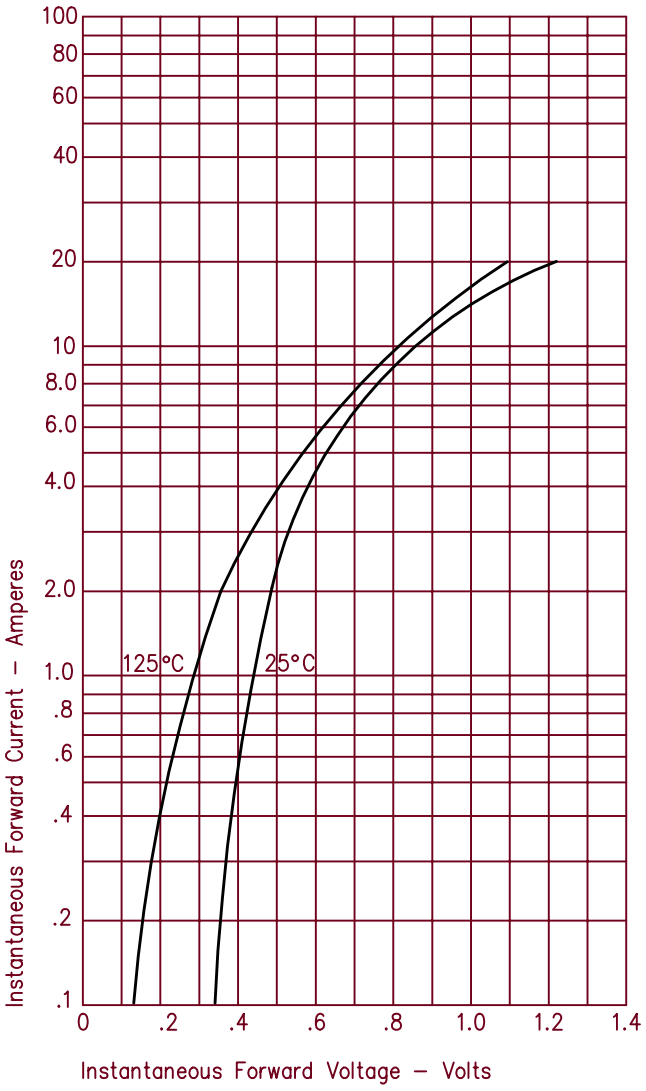


Figure 2
Typical Reverse Characteristics

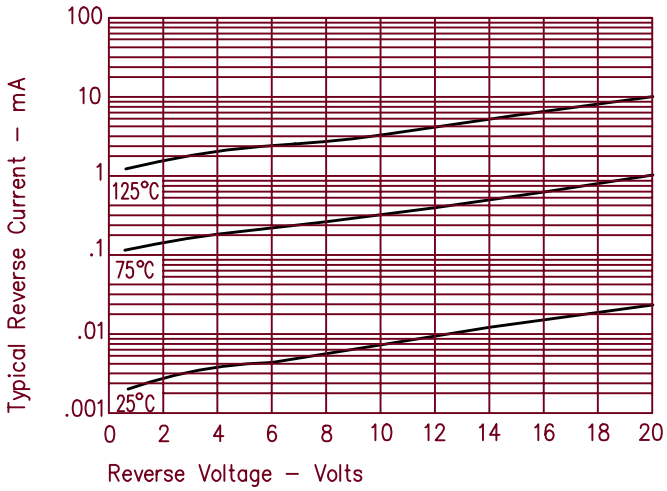
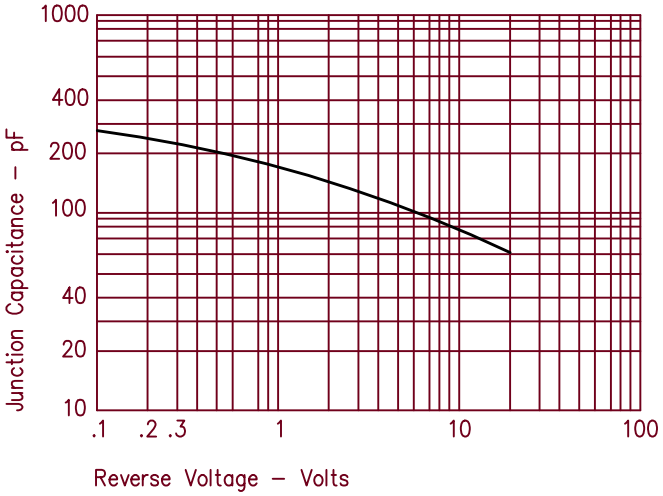


Figure 3
Typical Junction Capacitance



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