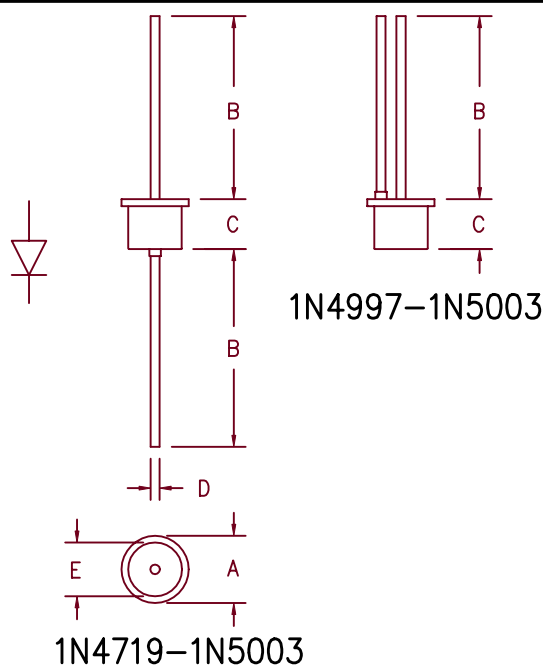


Silicon Rectifiers

1N4719–1N4725, 1N4997–1N5003



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	.450	---	11.43	Dia.
B	.980	---	24.89	---	
C	---	.300	---	7.62	
D	.046	.056	1.17	1.42	Dia.
E	---	.350	---	8.89	Dia.

Microsemi Catalog Number

1N4719, 1N4997
1N4720, 1N4998
1N4721, 1N4999
1N4722, 1N5000
1N4723, 1N5001
1N4724, 1N5002
1N4725, 1N5003

Peak Reverse Voltage

50V
100V
200V
400V
600V
800V
1000V

- High Surge Capability
- 175°C Junction Temperature
- VRRM 50 to 1000 Volts
- 3 Amp Current Rating
- Hermetically Sealed

Electrical Characteristics

Average forward current
Maximum surge current
Max peak forward voltage
Max peak reverse current

$I_F(AV)$ 3.0 Amps
 I_{FSM} 300 Amps
 V_{FM} 1.0 Volts
 I_{RM} 25 μA

$T_A = 119^\circ C$, Square wave, $R_{\theta JL} = 12^\circ C/W$, $L = 1/4"$
8.3ms, half sine, $T_J = 175^\circ C$
 $I_{FM} = 3.0A$; $T_J = 25^\circ C^*$
 $V_{RRM}, T_J = 25^\circ C$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
 T_J
 $L = 1/4"$ $R_{\theta JL}$

$-65^\circ C$ to $175^\circ C$
 $-65^\circ C$ to $175^\circ C$
 $12^\circ C/W$ Junction to Lead
.08 ounces (2.3 grams) typical

11–13–00 Rev. 1

1N4719–1N4725, 1N4997–1N5003

Figure 1
Typical Forward Characteristics

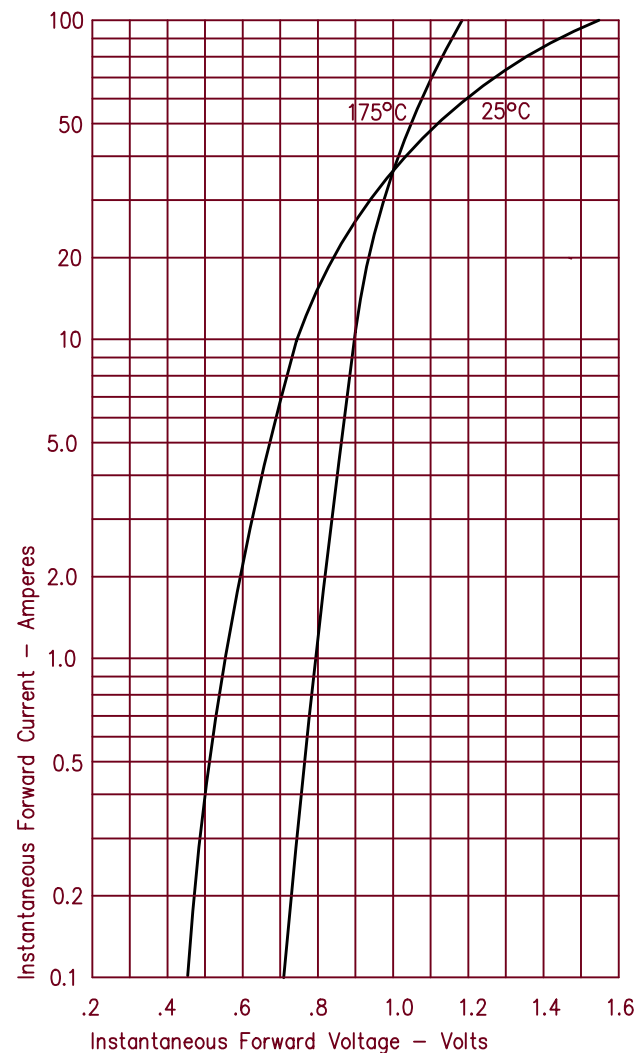


Figure 3
Forward Current Derating

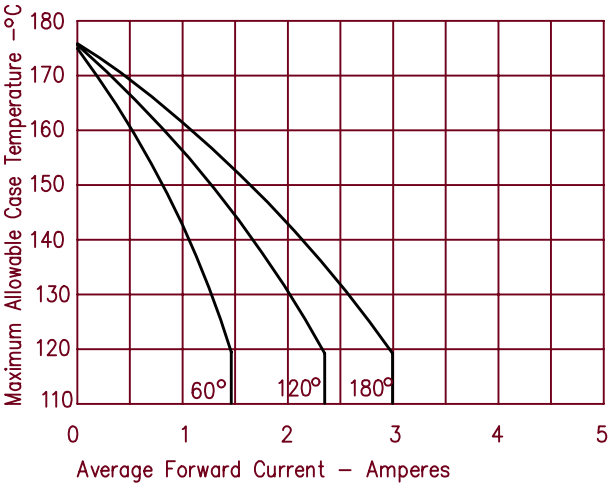
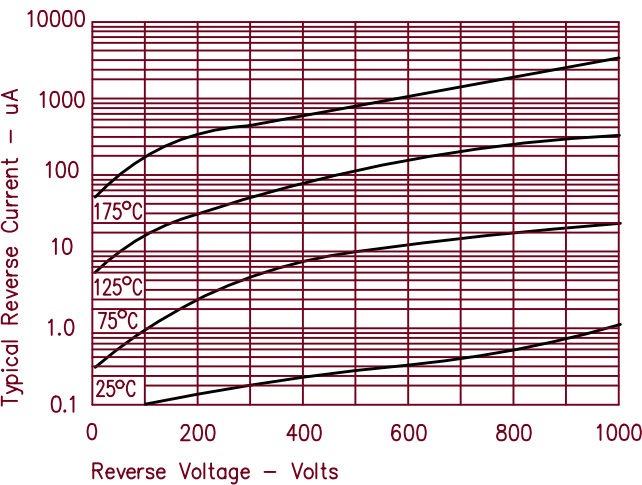


Figure 2
Typical Reverse Characteristics



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