

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

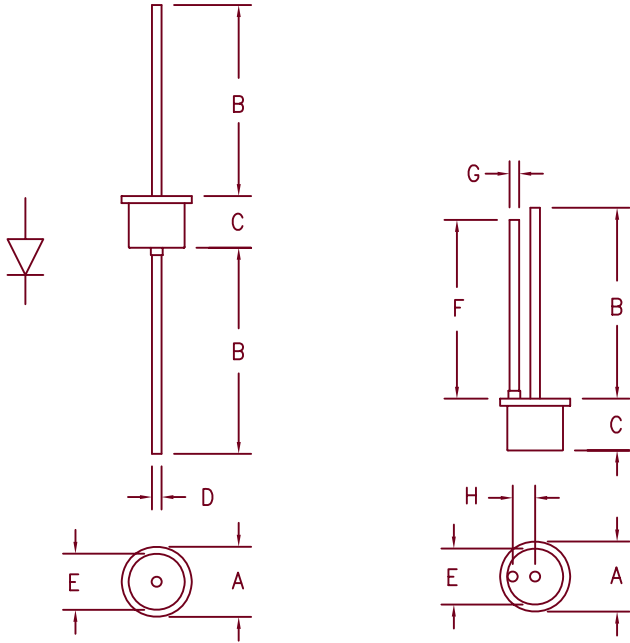
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Silicon Rectifiers

1N4719–1N4725, 1N4997–1N5003



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.
F	.960	---	24.38	---	
G	.031	.035	.79	.89	Dia.
H	.145	.165	3.68	4.19	

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 μ A

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

*Pulse test: Pulse width 300 μ sec, 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°C to 175°C
 -65°C to 175°C
 12°C/W Junction to Lead
 .08 ounces (2.3 grams) typical



6 Lake Street
 Lawrence, MA 01841
 PH: (978) 620-2600
 FAX: (978) 689-0803
www.microsemi.com

05-01-07 Rev. 3

1N4719-1N4725, 1N4997-1N5003

Figure 1
Typical Forward Characteristics

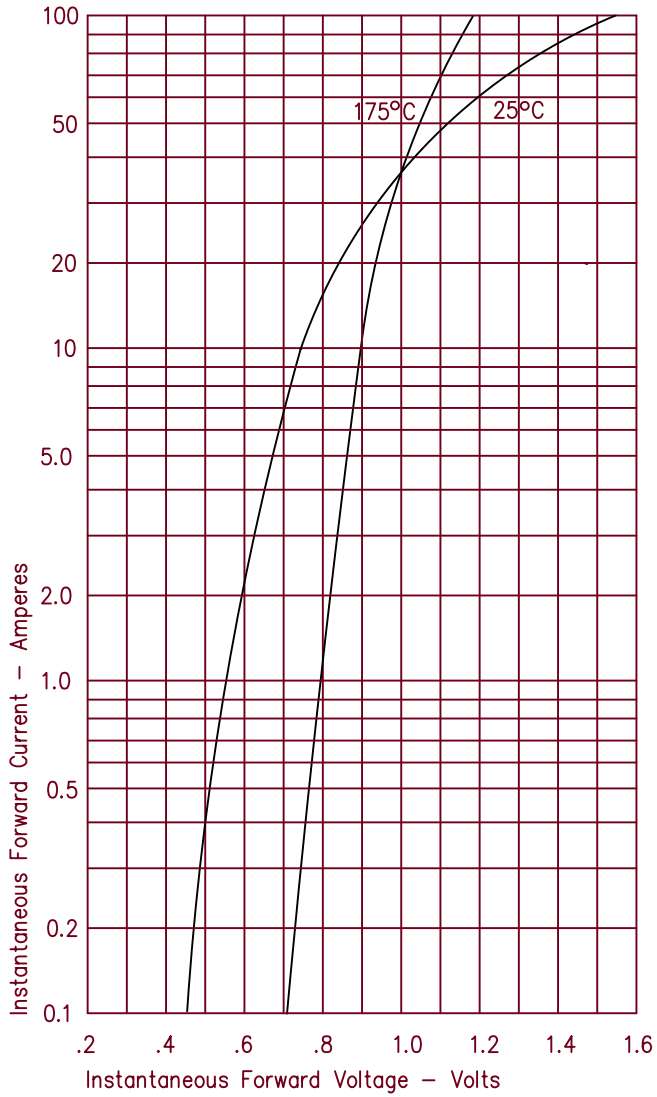


Figure 3
Forward Current Derating

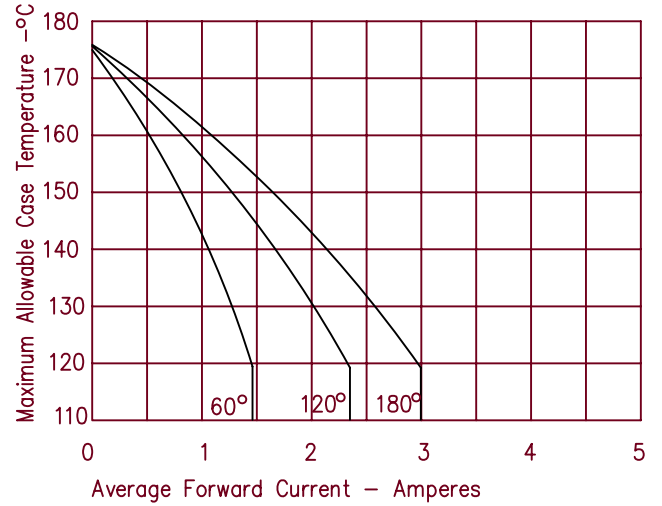


Figure 2
Typical Reverse Characteristics

