



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

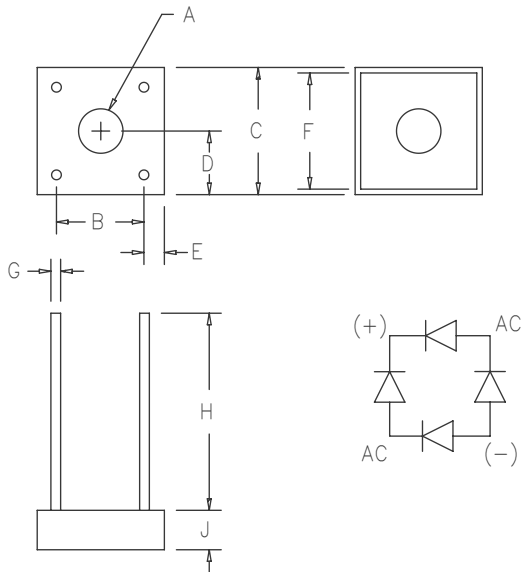
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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

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



Controlled Avalanche Bridge Rectifiers VJ247M — VJ847M



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.137	.167	3.84	2.21	Dia.
B	.411	.441	10.44	11.20	
C	.600	.620	---	---	
D	.295	.310	---	---	
E	.076	.096	---	---	
F	.545	.555	13.85	14.10	
G	.076	.096	.970	1.07	
H	1.0 Min.		25.40 Min.		
J	.195	.215	4.95	5.46	

Microsemi
Catalog Number

VJ247M
VJ447M
VJ647M
VJ847M

Avalanche
Voltage Range

250V – 700V
450V – 900V
660V – 1100V
850V – 1300V

- 10 Amps DC Output
- 100 Amp Surge Current
- 2000V Isolation
- Glass Passivated Die
- ROHS Compliant

Electrical Characteristics

DC Current Output
Maximum surge current
Max. I^2t for fusing
Max. peak forward voltage per leg
Max. peak reverse current per leg

I_o 10 Amps
 I_{FSM} 100 Amps
 I^2t 41 A^2s
 V_{FM} 1.3 Volts
 I_{RM} 5 μA

$T_C = 80^\circ C$
8.3ms, half sine

$I_{FM} = 1.0A; T_J = 25^\circ C^*$
 $V_{RRM}, T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Mounting torque
Weight

T_{STG}
 T_J
 $R_{\theta JC}$

$-55^\circ C$ to $175^\circ C$
 $-55^\circ C$ to $150^\circ C$
3 $^\circ C/W$ Junction to case
12–15 inch pounds (#6 screw)
.14 ounces (4.5 grams) typical

VJ247M – VJ847M

Figure 1
Typical Forward Characteristics – Per Leg

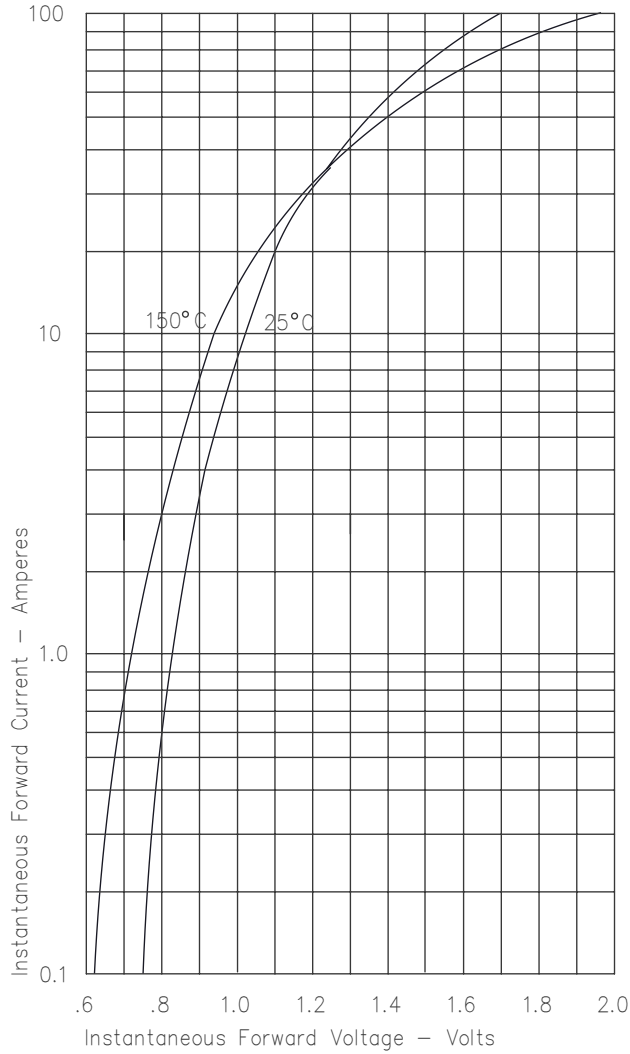
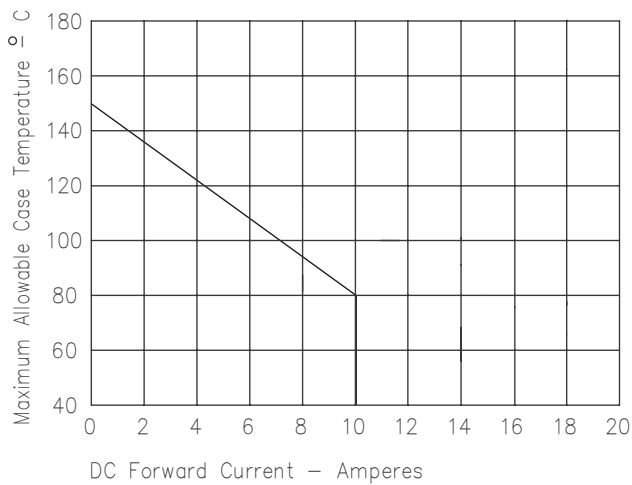


Figure 2
Forward Current Derating – Per Leg



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