



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

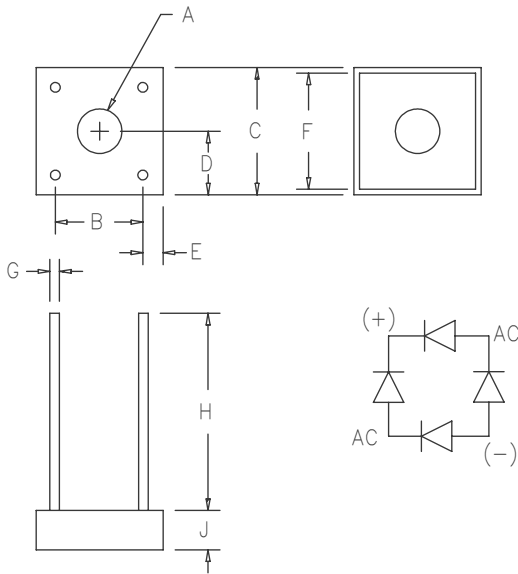
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Fast Recovery Bridge Rectifiers VJ248XM — VJ648XM



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

VJ248XM
VJ448XM
VJ648XM

Peak Reverse
Voltage

200V
400V
600V

- 10 Amps DC Output
- 80 Amp Surge Current
- V_{RRM} to 600V
- 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
Max. reverse recovery time

I_o 10 Amps
 I_{FSM} 80 Amps
 I^2t 27 A^2s
 V_{FM} 1.5 Volts
 I_{RM} 10 μA
 t_{rr} 200 nS

$T_C = 70^\circ C$
8.3ms, half sine

$I_{FM} = 1.0A; T_J = 25^\circ C^*$
 $V_{RRM}, T_J = 25^\circ C$
 $I_F = 1A, I_R = 2A, I_{RR} = .5A$

*Pulse test: Pulse width 300 μ sec, 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

VJ248XM — VJ648XM

Figure 1
Typical Forward Characteristics — Per Leg

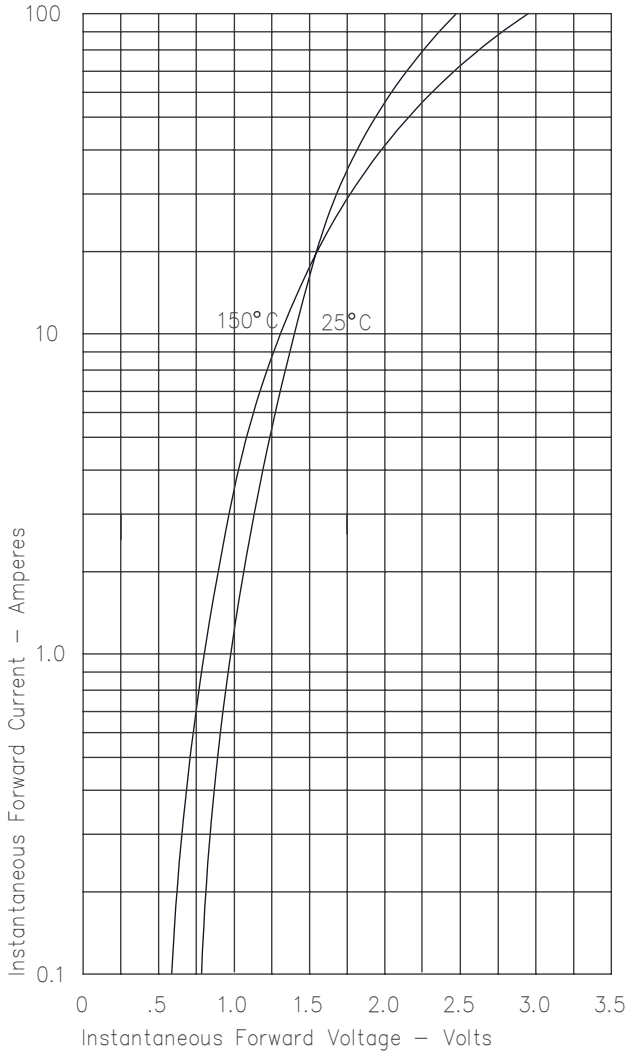


Figure 3
Forward Current Derating — Per Leg

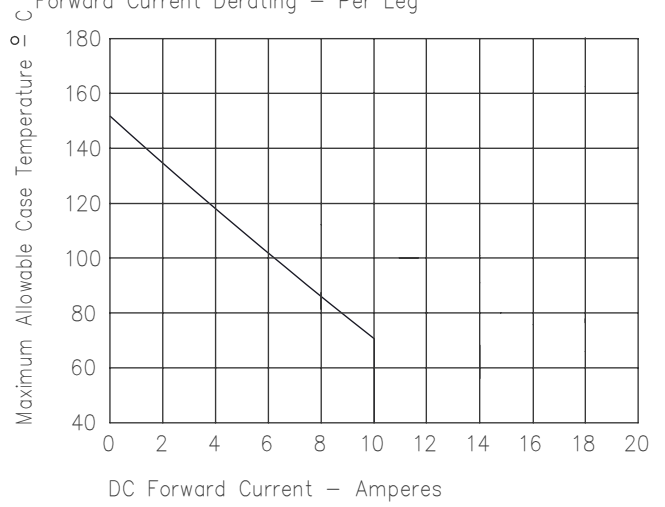


Figure 2
Typical Reverse Characteristics — Per Leg

