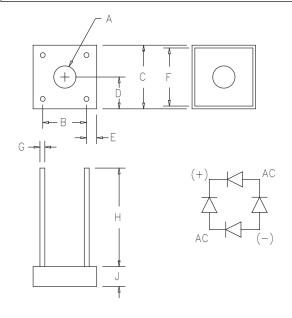
Controlled Avalanche Bridge Rectifiers VJ247M — VJ847M



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

Microsemi	Avalanche
Catalog Number	Voltage Range
VJ247M	250V - 700V
VJ447M	450V - 900V
VJ647M	660V - 1100V
VJ847M	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. I²t for fusing
Max. peak forward voltage

Max. peak forward voltage per leg Max. peak reverse current per leg lo 10 Amps IFSM 100 Amps I2t 41 A2s VFM 1.3 Volts IRM 5µA $T_{C} = 80^{\circ}C$ 8.3ms, half sine

 $_{VRRM,TJ}^{I} = 1.0A:_{J}^{TJ} = 25^{\circ}C^{*}$

*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 TSTG TJ ROJC

-55°C to 175°C -55°C to 150°C 3°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

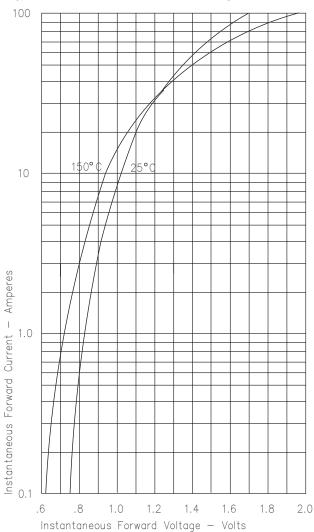
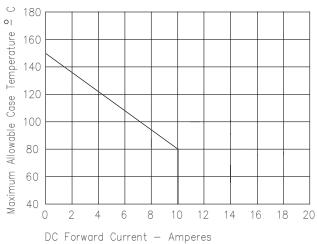


Figure 2 Forward Current Derating — Per Leg





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