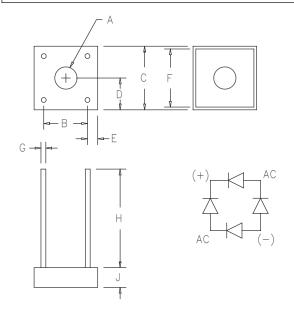
# Controlled Avalanche Bridge Rectifiers VJ247M — VJ847M



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			
Е	.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. I<sup>2</sup>t for fusing

Max. peak forward voltage per leg Max. peak reverse current per leg lo 10 Amps IFSM 100 Amps I<sup>2</sup>t 41 A<sup>2</sup>s VFM 1.3 Volts IRM 5µA  $T_{C} = 80^{\circ}C$ 8.3ms, half sine

<sup>l</sup> FM = 1.0A: <sup>T</sup>J = 25°C\* <sup>V</sup>RRM, <sup>T</sup>J = 25°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

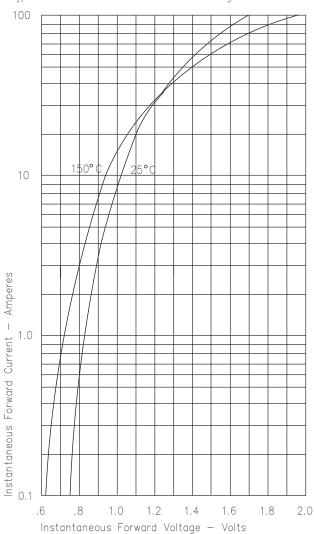
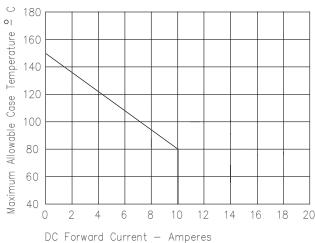


Figure 2 Forward Current Derating — Per Leg





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