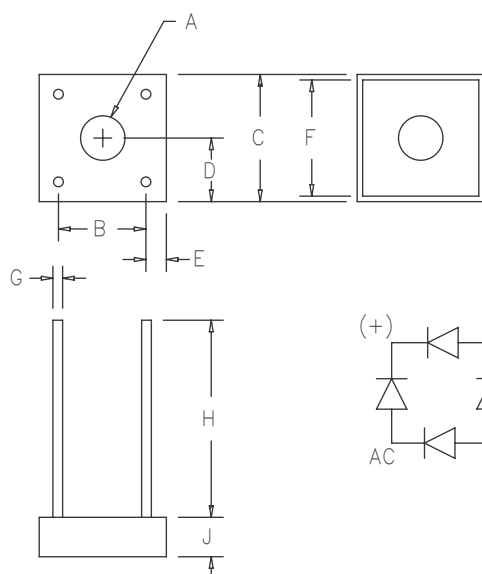


Bridge Rectifiers

VJ248M — VJ1048M



| 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

VJ248M
VJ448M
VJ648M
VJ848M
VJ1048M

Peak Reverse
Voltage

200V
400V
600V
800V
1000V

- 10 Amps DC Output
- 100 Amp Surge Current
- V_{RRM} to 1000V
- 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 A²s
 V_{FM} 1.3 Volts
 I_{RM} 5 μ A

$T_C = 95^\circ\text{C}$
8.3ms, half sine

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

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

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

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

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

VJ248M — VJ1048M

Figure 1
Typical Forward Characteristics — Per Leg

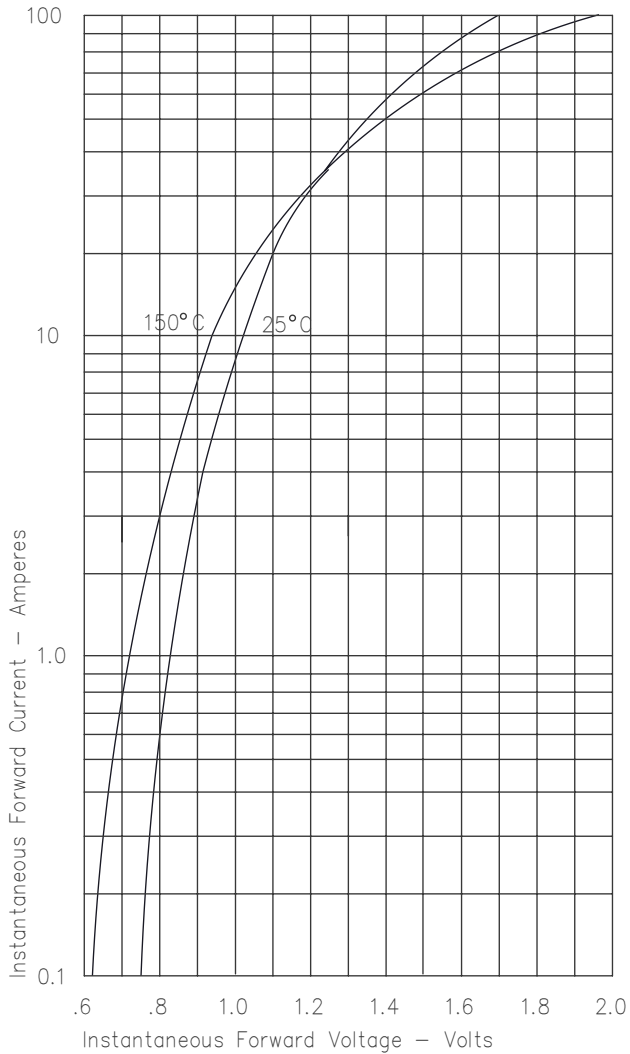


Figure 3
Forward Current Derating — Per Leg

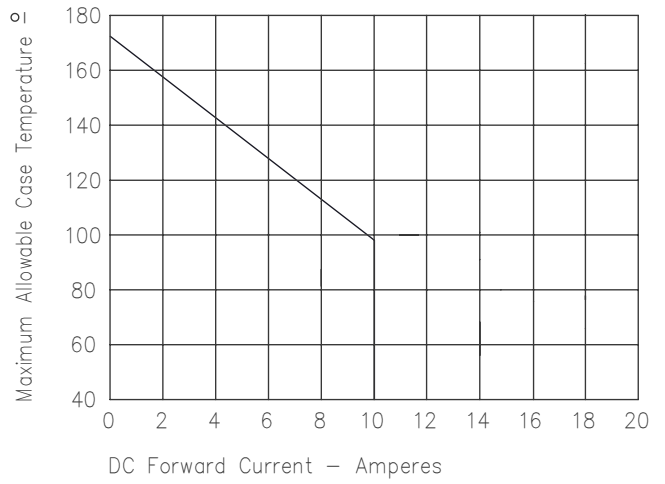
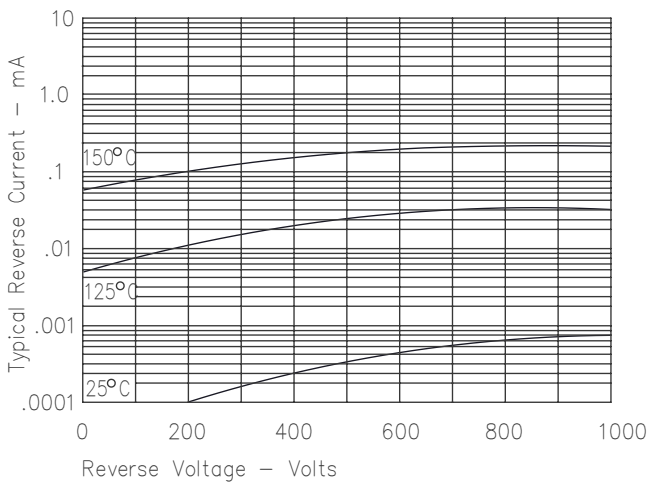


Figure 2
Typical Reverse Characteristics — Per Leg



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