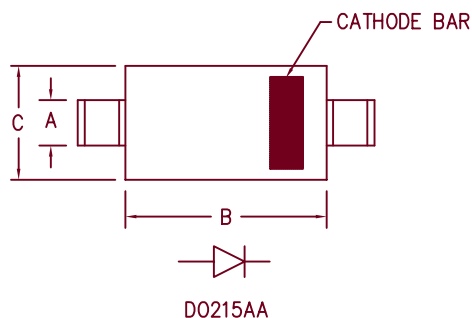
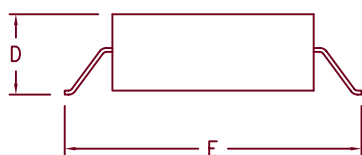


1 Amp Schottky Rectifier

HSM180G — HSM1100G



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.077	.104	1.95	2.64	
E	.234	.256	5.95	6.50	



Microsemi
Catalog Number

HSM180
HSM190
HSM1100

Working
Peak Reverse
Voltage

80V
90V
100V

Repetitive
Peak Reverse
Voltage

80V
90V
100V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- VRRM 80 to 100 Volts
- Economical Surface Mount Package

Electrical Characteristics

Average forward current
Maximum surge current
Max peak forward voltage
Max peak forward voltage
Max peak reverse current
Typical junction capacitance

I_{F(AV)} 1.0 Amps
I_{FSM} 40 Amps
V_{FM} .57 Volts
V_{FM} .84 Volts
I_{RM} 100 μ A
C_J 45pF

Square wave
8.3ms, half sine, T_J = 150°C
I_{FM} = 0.1A: T_J = 25°C*
I_{FM} = 1.0A: T_J = 25°C*
V_{RRM}, T_J = 25°C
V_R = 5.0V, T_J = 25°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
Weight

T_{STG}
T_J
R θ JL

-55°C to 175°C
-55°C to 175°C
25°C/W Junction to lead
.0047 ounces (.013 grams) typical



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05-15-07 Rev. 2

HSM180G — HSM1100G

Figure 1
Typical Forward Characteristics

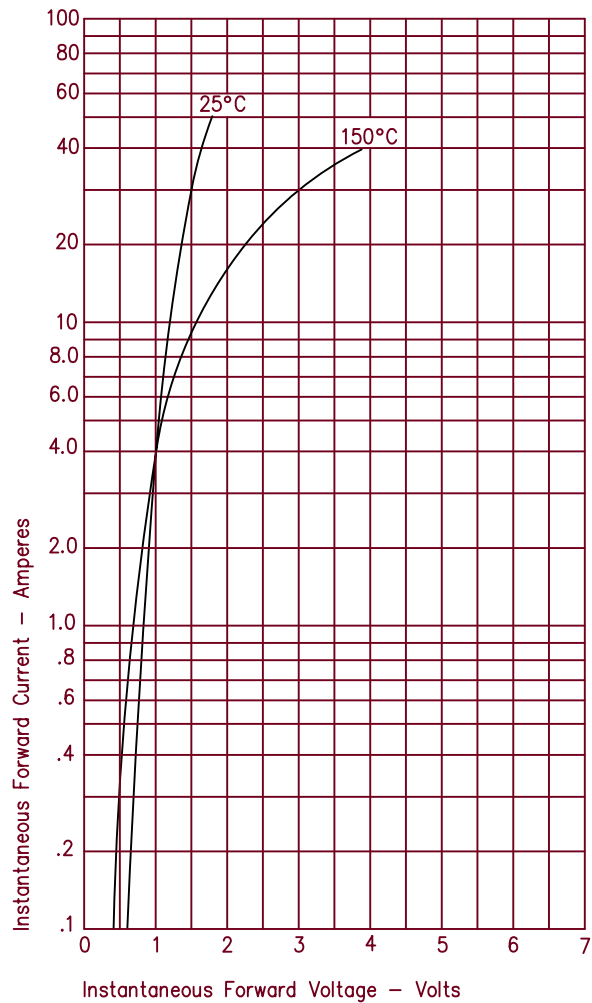


Figure 3
Typical Junction Capacitance

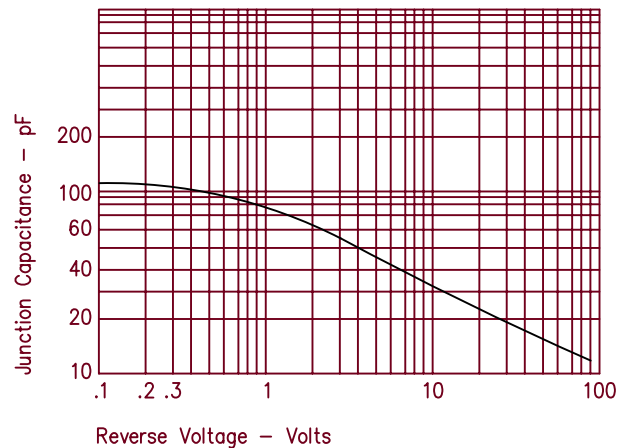


Figure 2
Typical Reverse Characteristics

