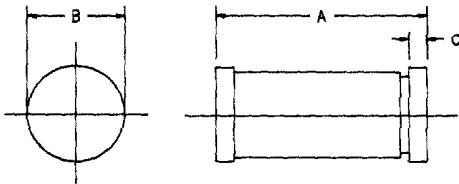


1 Amp Schottky Rectifier

HSM180, HSM190

C



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.189	.205	4.80	5.20	
B	.094	.105	2.39	2.66	Dia.
C	.016	.022	.41	.55	

GLASS HERMETIC D0213AB

Microsemi
Catalog Number

Working
Peak Reverse
Voltage

Repetitive
Peak Reverse
Voltage

HSM180
HSM190

80V
90V

80V
90V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- VRRM 80 to 90 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 75 Amps
V FM .53 Volts
V FM .81 Volts
I RM 100 mA
C J 45pF

T A = 138°C, Square wave, R_{BJC} = 45°C/W
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_{BJC}

-65°C to 175°C
-65°C to 150°C
45°C/W Junction to Case
.0047 ounces (.012 grams) typical

HSM180, HSM190

Figure 1
Typical Forward Characteristics

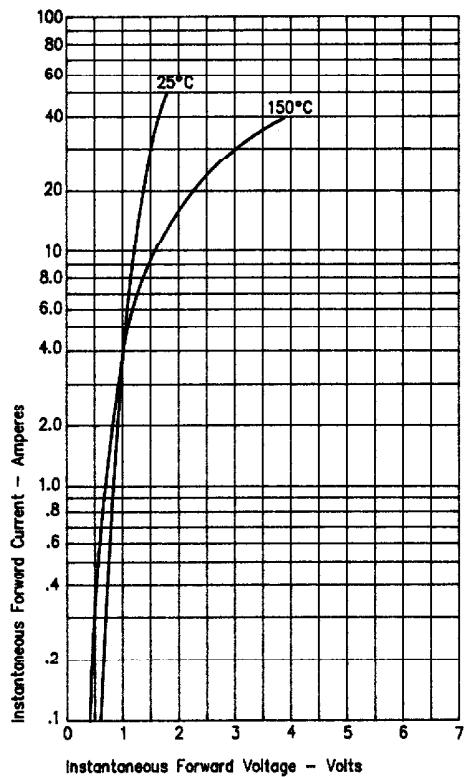


Figure 3
Typical Junction Capacitance

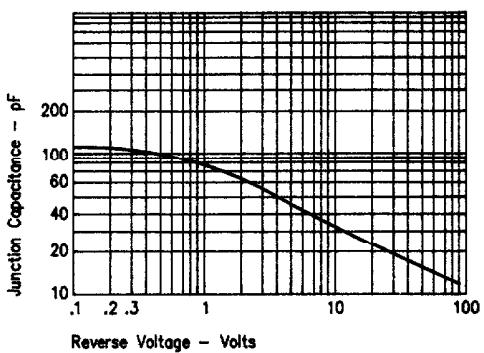


Figure 2
Typical Reverse Characteristics

