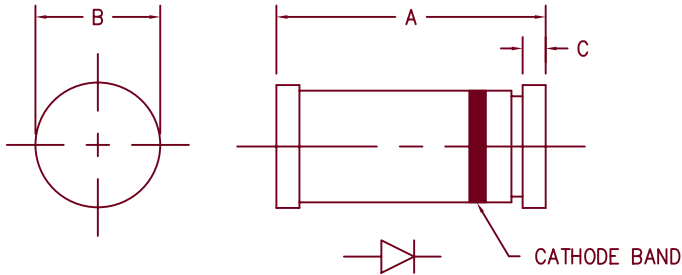


1 Amp Schottky Rectifier HSM180, HSM190



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
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	<ul style="list-style-type: none"> • Schottky Barrier Rectifier • Guard Ring Protection • 175°C Junction Temperature • VRRM 80 to 90 Volts • Economical Surface Mount package
HSM180 HSM190	80V 90V	80V 90V	

Electrical Characteristics			
Average forward current	I _{F(AV)} 1.0 Amps	T _L = 138°C, Square wave, R _{θJL} = 45°C/W	
Maximum surge current	I _{FSM} 40 Amps	8.3ms, half sine, T _J = 150°C	
Max peak forward voltage	V _{FM} .53 Volts	I _{FM} = 0.1A: T _J = 25°C*	
Max peak forward voltage	V _{FM} .81 Volts	I _{FM} = 1.0A: T _J = 25°C*	
Max peak reverse current	I _{RM} 100 μA	V _R = 5.0V, T _J = 25°C	
Typical junction capacitance	C _J 45pF		

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temperature range	T _{STG}	-65°C to 175°C
Operating junction temp range	T _J	-65°C to 175°C
Typical thermal resistance	R _{θJC}	45°C/W Junction to end cap
Weight		.0047 ounces (.013 grams) typical



8700 East Thomas Road, P.O. Box 1390
Scottsdale, AZ 85252
PH: (480) 941-6300
FAX: (480) 947-1503
www.microsemi.com

05-15-07 Rev. 2

HSM180, HSM190

Figure 1
Typical Forward Characteristics

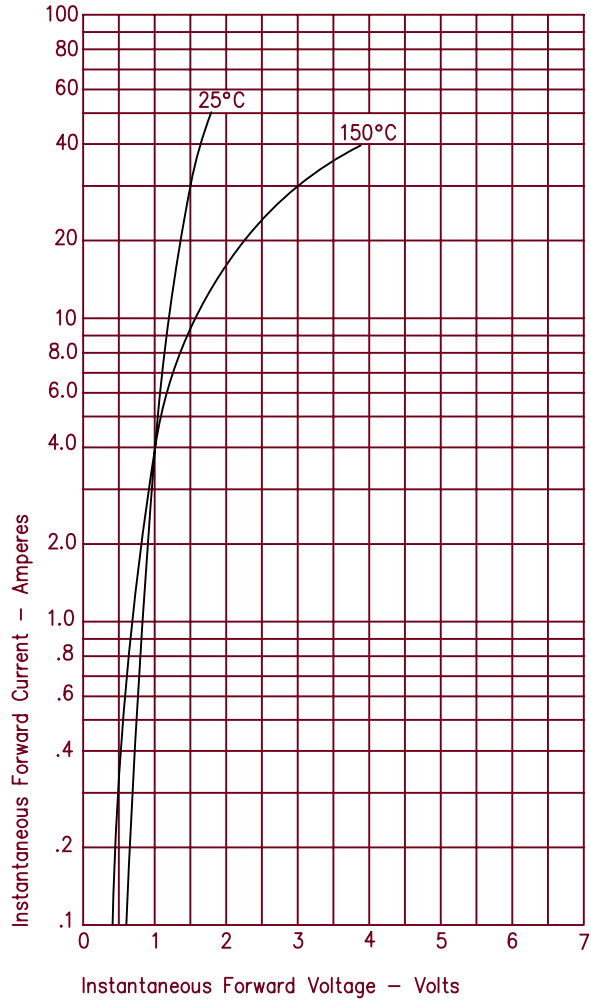


Figure 3
Typical Junction Capacitance

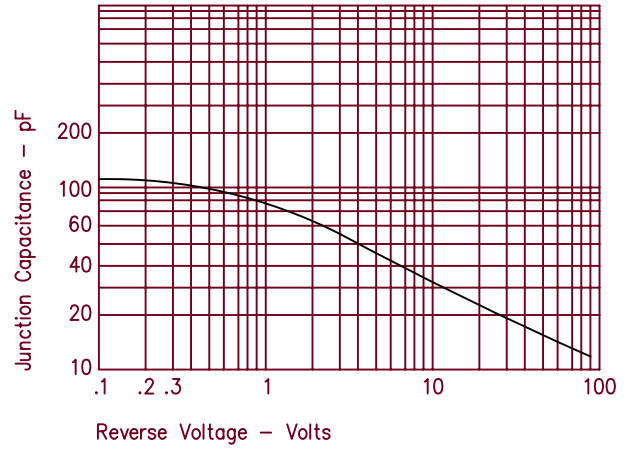


Figure 2
Typical Reverse Characteristics

