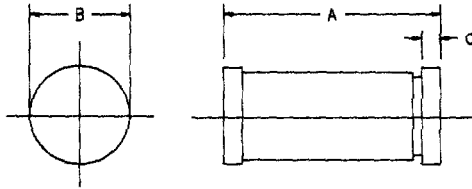


1 Amp Schottky Rectifier HSM180, HSM190

C



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

GLASS HERMETIC D0213AB

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	• Schottky Barrier Rectifier • Guard Ring Protection • 175°C Junction Temperature • VRRM 80 to 90 Volts • Economical Surface Mount Package
HSM180	80V	80V	
HSM190	90V	90V	

Electrical Characteristics			
Average forward current	IF(AV) 1.0 Amps	TA = 138°C, Square wave, RθJC = 45°C/W	
Maximum surge current	IFSM 75 Amps	8.3ms, half sine, TJ = 150°C	
Max peak forward voltage	VFM .53 Volts	IFM = 0.1A; TJ = 25°C*	
Max peak forward voltage	VFM .81 Volts	IFM = 1.0A; TJ = 25°C*	
Max peak reverse current	IRM 100 μA	VRRM, TJ = 25°C	
Typical junction capacitance	CJ 45pF	VR = 5.0V, TJ = 25°C	
*Pulse test: Pulse width 300 μsec, Duty cycle 2%			

Thermal and Mechanical Characteristics		
Storage temperature range	TSTG	-65°C to 175°C
Operating junction temp range	TJ	-65°C to 150°C
Maximum thermal resistance	RθJC	45°C/W Junction to Case
Weight		.0047 ounces (.012 grams) typical

Microsemi Corp.
Colorado

PH: 303-469-2161
FAX: 303-466-3775

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HSM180, HSM190

Figure 1
Typical Forward Characteristics

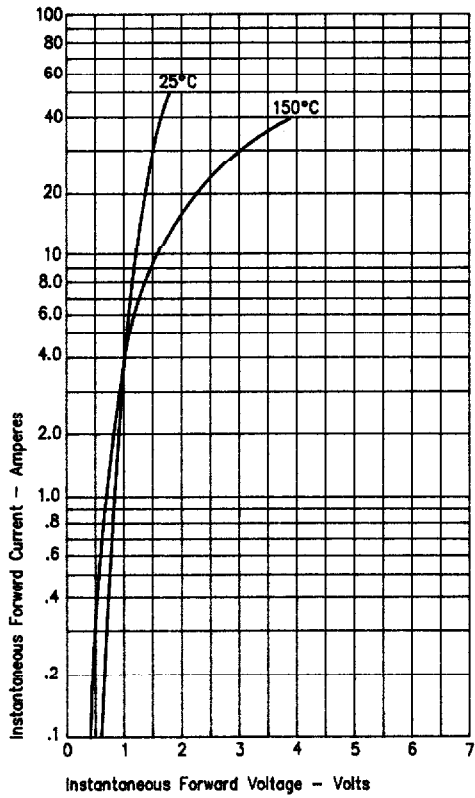


Figure 3
Typical Junction Capacitance

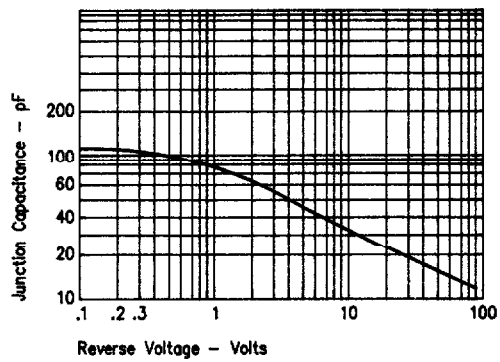


Figure 2
Typical Reverse Characteristics

