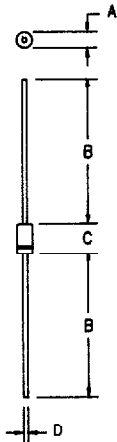


1 Amp Schottky Rectifier MSG108, 109, 110



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.081	.107	2.057	2.718	Dia.
B	1.10	---	27.94	---	
C	.160	.205	4.064	5.207	
D	.028	.034	.711	.864	Dia.

GLASS HERMETIC DO41

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MSG108	80V	80V
MSG109	90V	90V
MSG110	100V	100V

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

Electrical Characteristics		
Average forward current	I _{F(AV)} 1.0 Amps	T _A = 135°C Square wave, R _{θJL} = 50°C/W, L = 0"
Average forward current	I _{F(AV)} 1.0 Amps	T _A = 120°C Square wave, R _{θJL} = 68°C/W, L = 3/8"
Maximum surge current	I _{FSM} 75 Amps	8.3ms, half sine, T _J = 175°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 _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 45pF	V _R = 5.0V, T _J = 25°C

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

Thermal and Mechanical Characteristics		
Storage temperature range	T _{STG}	-40°C to 175°C
Operating junction temp range	T _J	-40°C to 175°C*
Maximum thermal resistance	L = 3/8"	R _{θJL} 68°C/W
	L = 0	R _{θJL} 50°C/W
Weight		.011 ounces (0.34 grams) typical

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

Microsemi Corp.
Colorado

MSG108, 109, 110

Figure 1
Typical Forward Characteristics

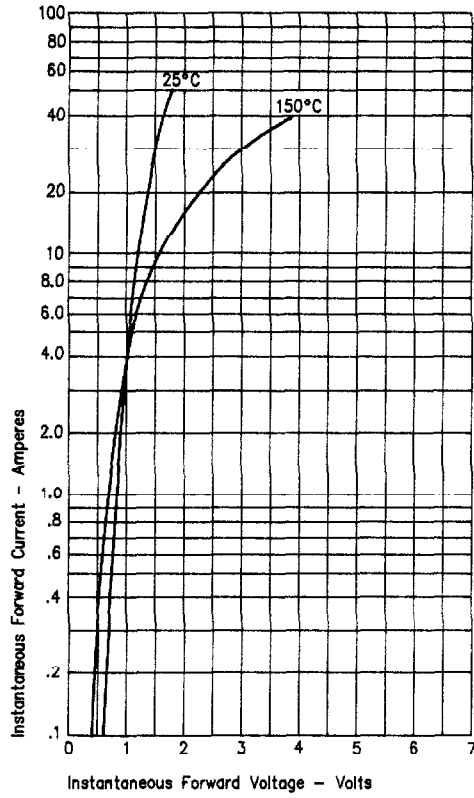


Figure 3
Typical Junction Capacitance

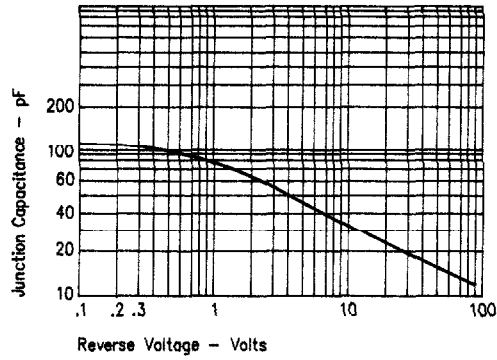


Figure 2
Typical Reverse Characteristics

