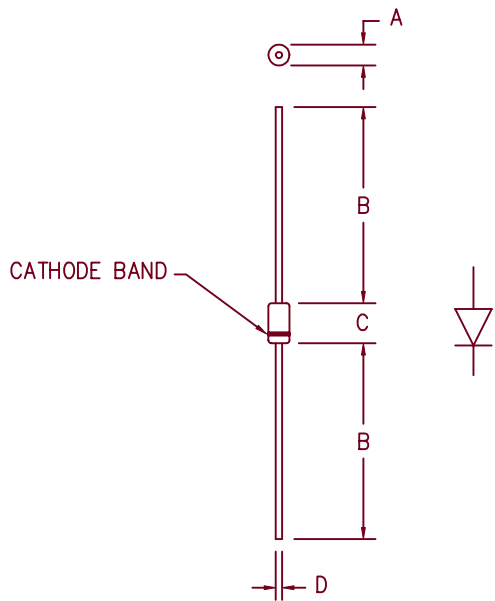


1 Amp Schottky Rectifier MSG108 — MSG109



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

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- V_{RRM} 80 to 90 Volts
- Hermetic Package

Electrical Characteristics		
Average forward current	$I_F(AV)$ 1.0 Amps	$T_A = 135^\circ\text{C}$ Square wave
Maximum surge current	I_{FSM} 50 Amps	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Max peak forward voltage	V_{FM} .81 Volts	$I_{FM} = 1.0A; T_J = 25^\circ\text{C}^*$
Max peak reverse current	I_{RM} 100 μA	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	C_J 45pF	$V_R = 5.0V, T_J = 25^\circ\text{C}$
*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*
Maximum thermal resistance $L = 1/4"$	$R_{\theta JL}$	15°C/W
Weight		.012 ounces (0.38 grams) typical
		Junction to Lead

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MSG108 — MSG109

Figure 1
Typical Forward Characteristics

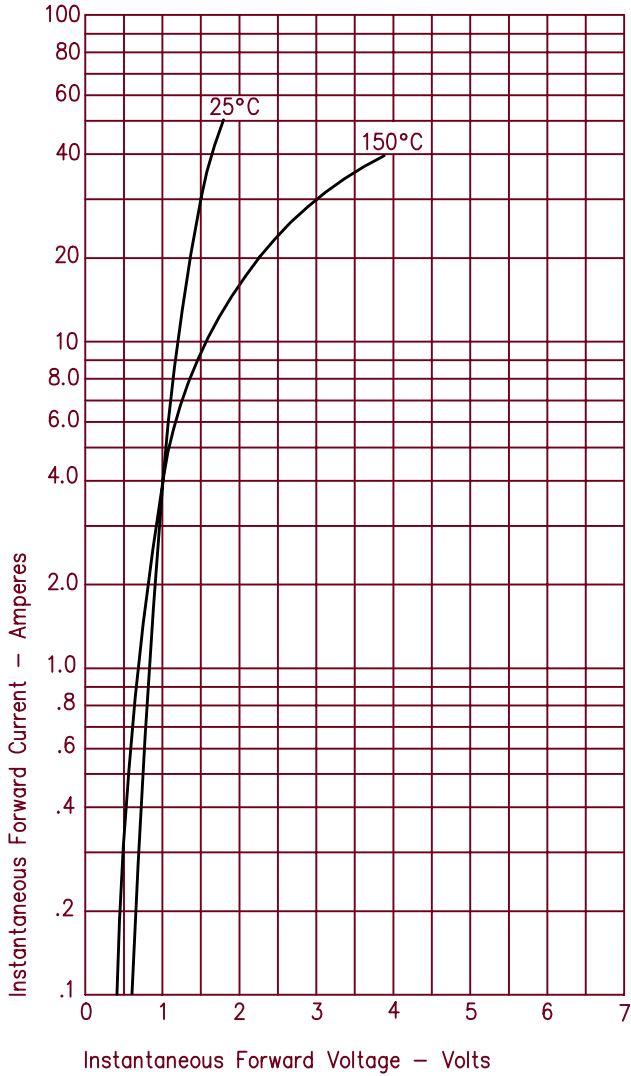


Figure 3
Typical Junction Capacitance

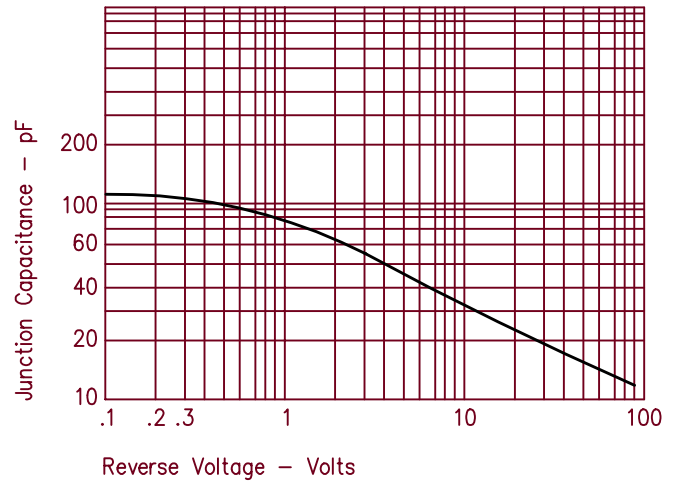


Figure 2
Typical Reverse Characteristics

