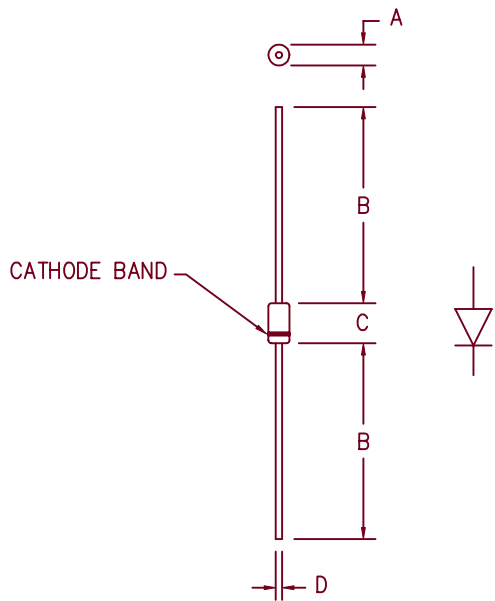


1 Amp Schottky Rectifier MSG110



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
MSG110	100V	100V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- V_{RRM} 100 Volts
- Hermetic Package

Electrical Characteristics

Average forward current
Maximum surge current
Max peak forward voltage
Max peak reverse current
Typical junction capacitance

$I_{F(AV)}$ 1.0 Amps
 I_{FSM} 50 Amps
 V_{FM} .83 Volts
 I_{RM} 100 μ A
 C_J 45pF

$T_A = 135^\circ\text{C}$ Square wave
8.3ms, half sine, $T_J = 175^\circ\text{C}$
 $I_{FM} = 1.0A; T_J = 25^\circ\text{C}^*$
 $V_{RRM}, T_J = 25^\circ\text{C}$
 $V_R = 5.0V, T_J = 25^\circ\text{C}$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance $L = 1/4"$
Weight

T_{STG}
 T_J
 $R_{\theta JL}$

-65°C to 175°C
 -65°C to 175°C°
15°C/W Junction to Lead
.012 ounces (0.38 grams) typical

10-6-03 Rev. 0

MSG110

Figure 1
Typical Forward Characteristics

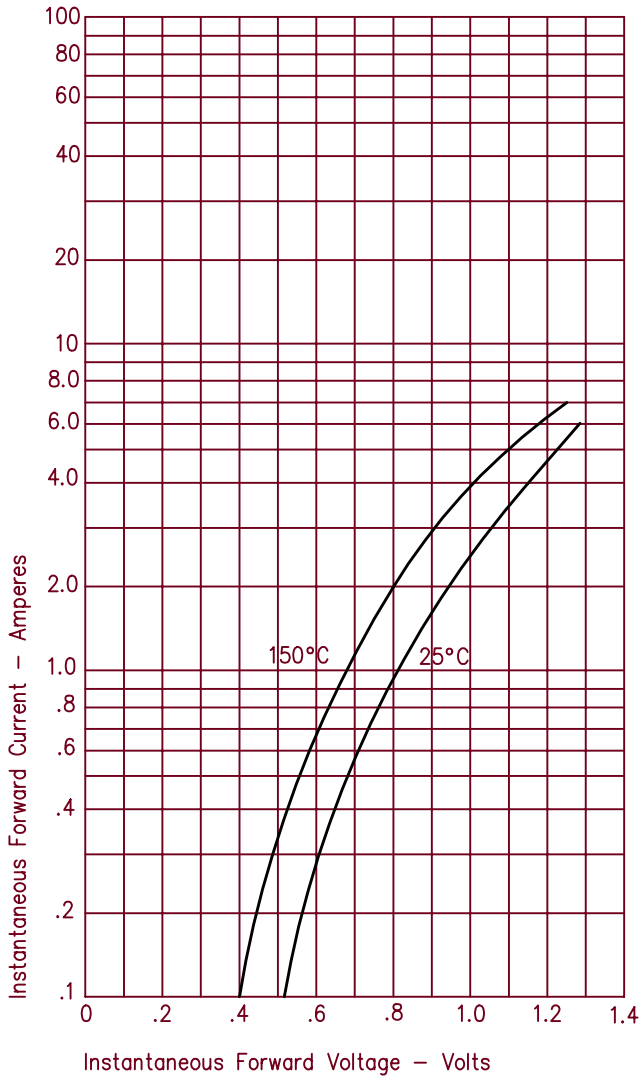


Figure 3
Typical Junction Capacitance

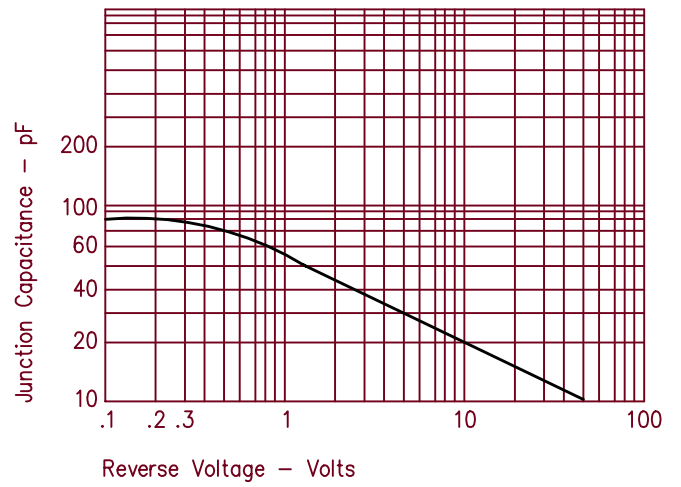


Figure 2
Typical Reverse Characteristics

