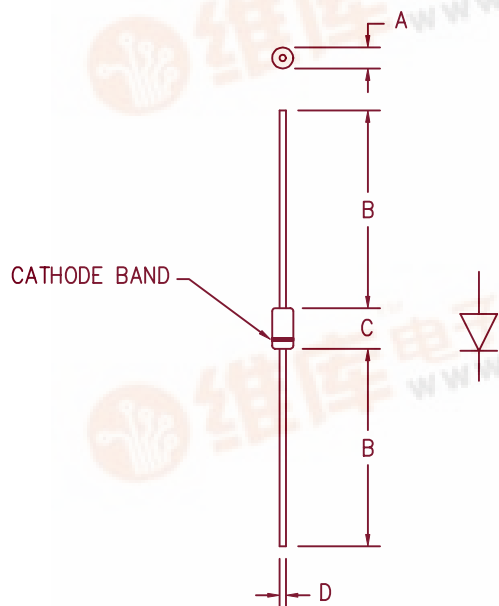


1 Amp Schottky Rectifier MSG104 — MSG106



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

MSG104
MSG105
MSG106

40V
50V
60V

40V
50V
60V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- VRRM 40 to 60 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} .69 Volts
 I_{RM} 100 μA
 C_J 53pF

$T_A = 150^\circ C$ Square wave
8.3ms, half sine, $T_J = 175^\circ C$
 $I_{FM} = 1.0A$; $T_J = 25^\circ C^*$
 V_{RRM} , $T_J = 25^\circ C$
 $V_R = 5.0V$, $T_J = 25^\circ C$

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

Thermal and Mechanical

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
 T_J
 $L = 1/4"$ R θ JL

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

MSG104 — MSG106

Figure 1
Typical Forward Characteristics

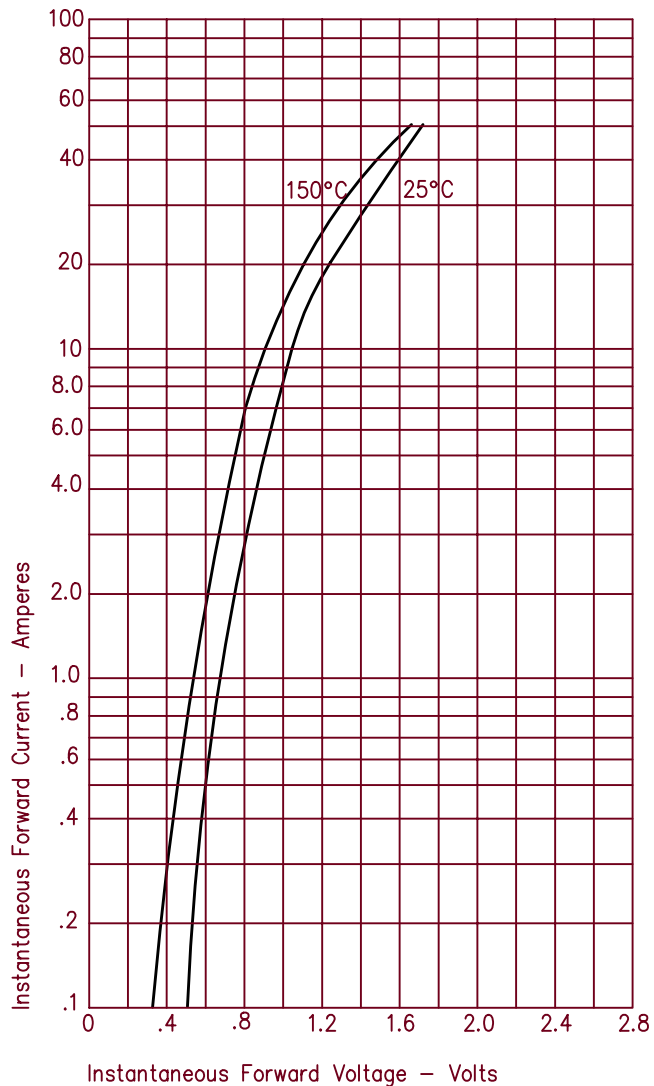


Figure 3
Typical Junction Capacitance

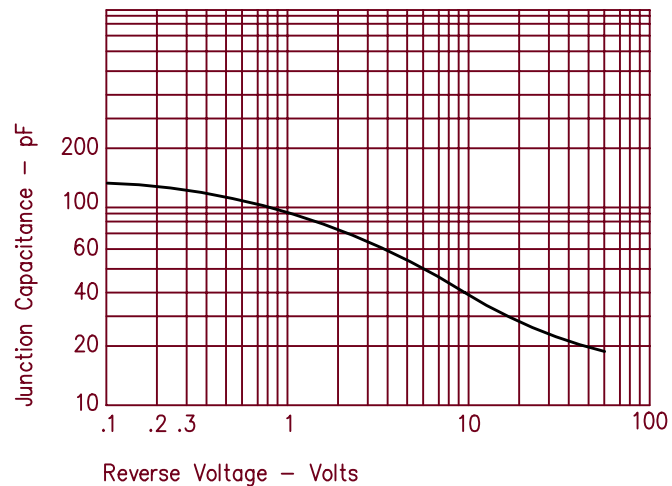


Figure 2
Typical Reverse Characteristics

