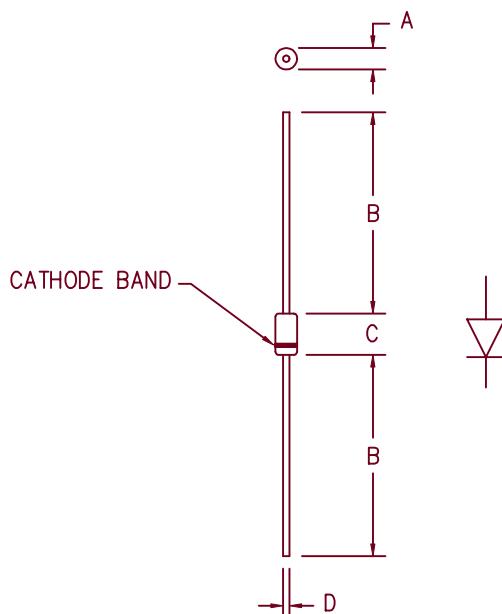


1 Amp Schottky Rectifier MS104 — MS106



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.

PLASTIC D041

Microsemi
Catalog Number

Working
Peak Reverse
Voltage

MS104 40V
MS105 50V
MS106 60V

Repetitive
Peak Reverse
Voltage

40V
50V
60V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- V_{RRM} 40 to 60 Volts

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 μ A
 C_J 53pF

$T_A = 129^\circ\text{C}$ Square wave, $R_{\theta JL} = 15^\circ\text{C}/W$, $L = 1/4"$
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

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
 T_J
 $L = 1/4"$ $R_{\theta JL}$

-55°C to 175°C
-55°C to 175°C
15°C/W Junction to Lead
.011 ounces (0.34 grams) typical

MS104 – MS106

Figure 1
Typical Forward Characteristics

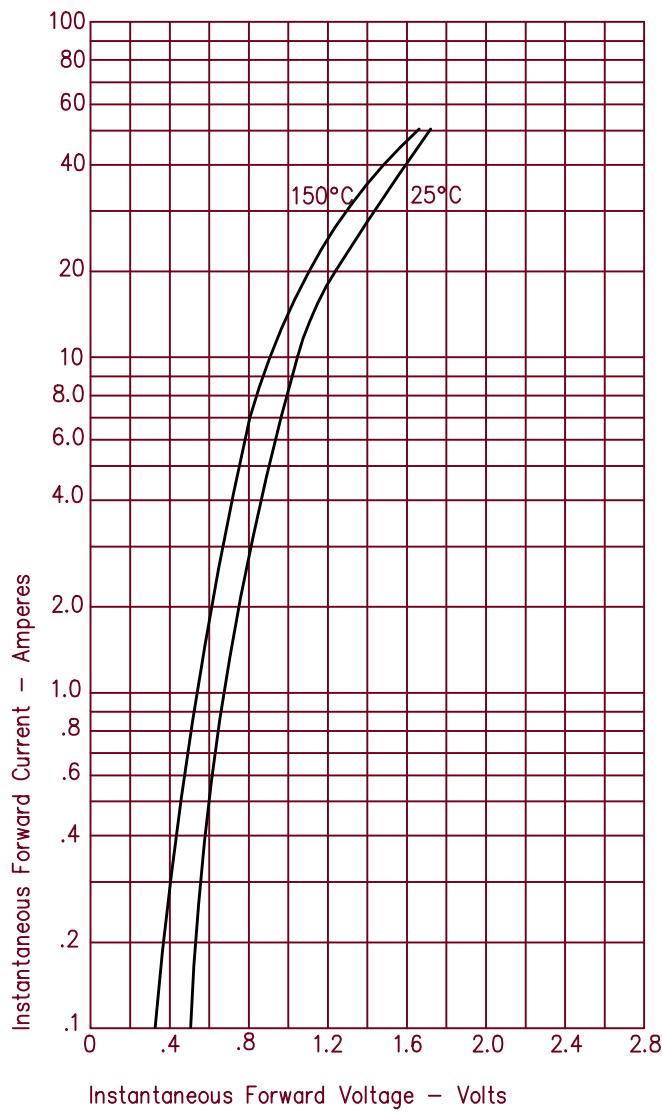


Figure 3
Typical Junction Capacitance

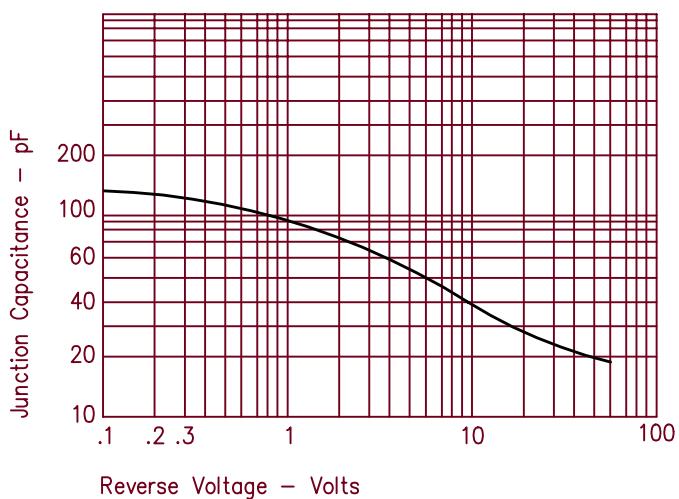


Figure 2
Typical Reverse Characteristics

