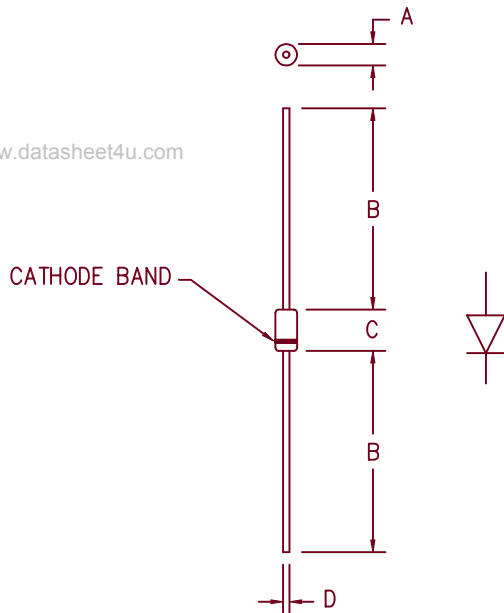


1 Amp Schottky Rectifier MS104 — MS106

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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	Repetitive Peak Reverse Voltage
MS104	40V	40V
MS105	50V	50V
MS106	60V	60V

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

Electrical Characteristics

Average forward current	$I_F(AV)$ 1.0 Amps	$T_A = 129^\circ\text{C}$ Square wave, $R_{\theta JL} = 15^\circ\text{C/W}$, $L = 1/4"$
Maximum surge current	I_{FSM} 50 Amps	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Max peak forward voltage	V_{FM} .69 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 53pF	$V_R = 5.0V, T_J = 25^\circ\text{C}$

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

Thermal and Mechanical

Storage temperature range	T_{STG}	-55°C to 175°C
Operating junction temp range	T_J	-55°C to 175°C
Maximum thermal resistance	$L = 1/4"$ $R_{\theta JL}$	15°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical

8-9-00 Rev. 1

MS104 — MS106

Figure 1
Typical Forward Characteristics

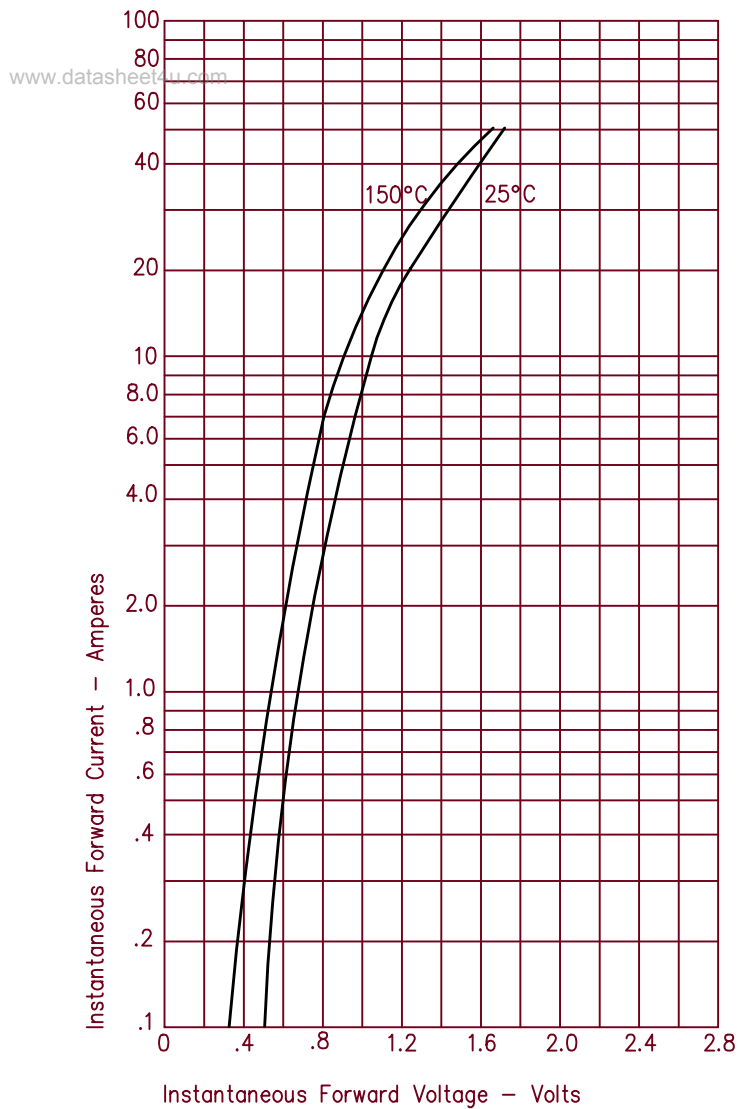


Figure 3
Typical Junction Capacitance

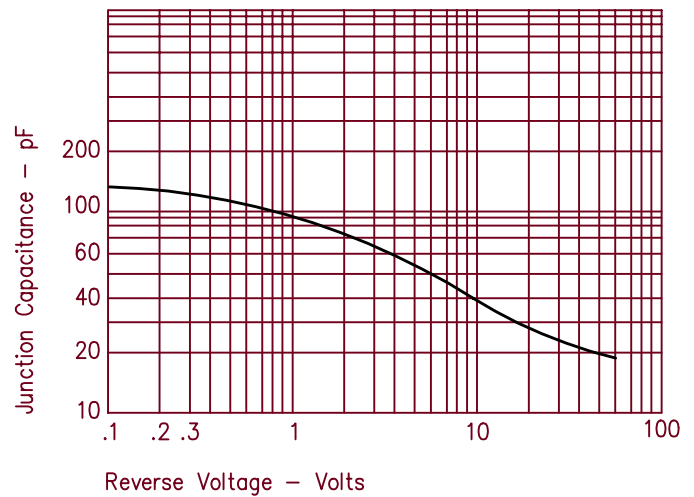


Figure 2
Typical Reverse Characteristics

