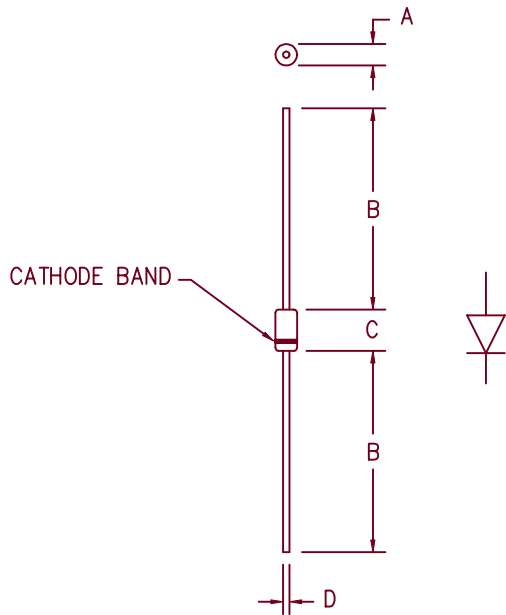


# 1 Amp Schottky Rectifier MS104 — MS106



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	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 $\mu\text{A}$	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	$C_J$ 53pF	$V_R = 5.0V, T_J = 25^\circ\text{C}$
*Pulse test: Pulse width 300 $\mu\text{sec}$ , Duty cycle 2%		

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

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# MS104 — MS106

Figure 1  
Typical Forward Characteristics

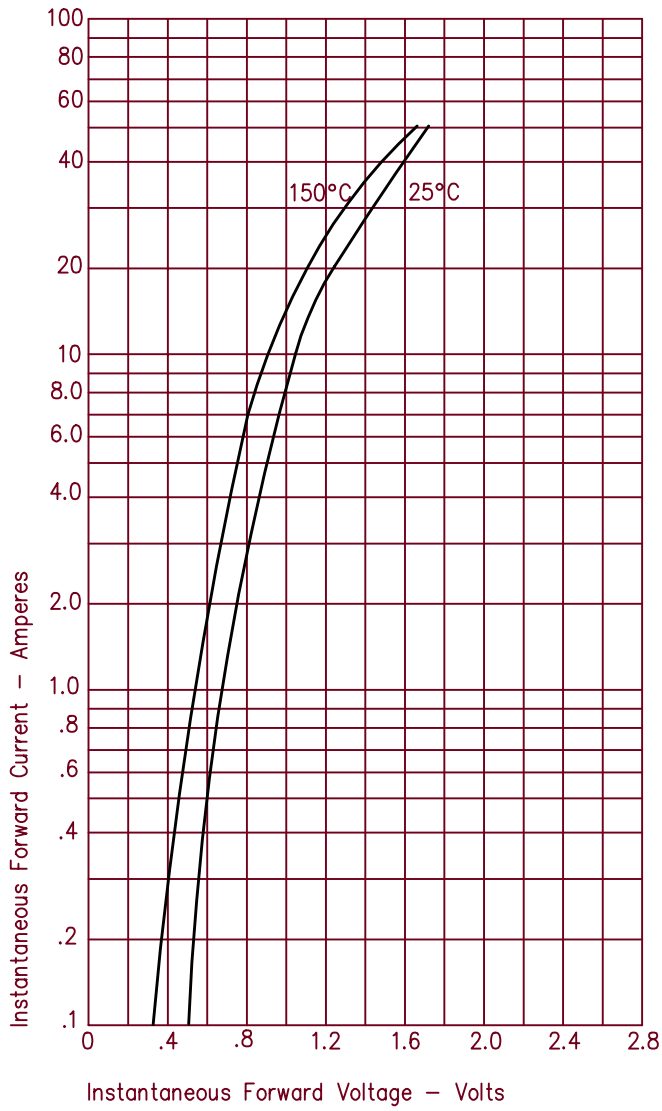


Figure 3  
Typical Junction Capacitance

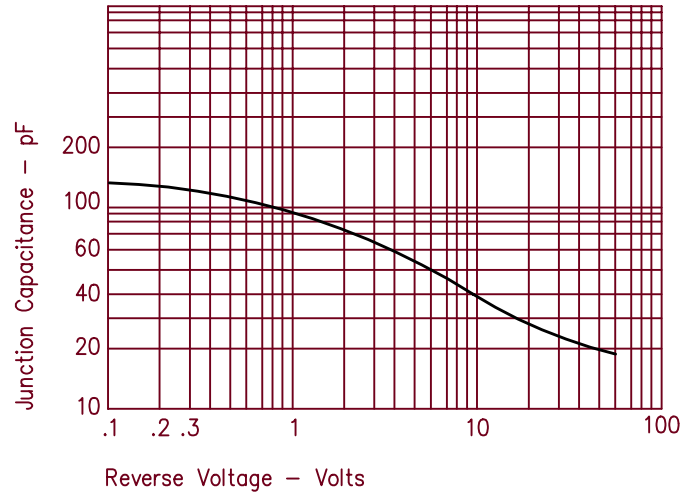


Figure 2  
Typical Reverse Characteristics

