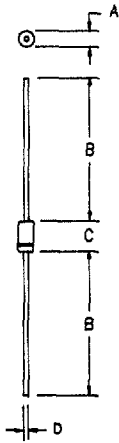


# 1 Amp Schottky Rectifier MS104, 105, 106

C



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	<ul style="list-style-type: none"> <li>• Schottky Barrier Rectifier</li> <li>• Guard Ring Protection</li> <li>• 175°C Junction Temperature</li> <li>• <math>V_{RRM}</math> 40 to 60 Volts</li> </ul>
MS105	50V	50V	
MS106	60V	60V	

Electrical Characteristics		
Average forward current	$I_F(AV)$ 1.0 Amps	$T_A = 150^\circ\text{C}$ Square wave, $R_{\theta JL} = 35^\circ\text{C/W}$ , $L = 0^\circ$
Average forward current	$I_F(AV)$ 1.0 Amps	$T_A = 125^\circ\text{C}$ Square wave, $R_{\theta JL} = 66^\circ\text{C/W}$ , $L = 3/8^\circ$
Maximum surge current	$I_{FSM}$ 75 Amps	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Max peak forward voltage	$V_{FM}$ .51 Volts	$I_{FM} = 0.1A; T_J = 25^\circ\text{C}^*$
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	$T_{STG}$	$-40^\circ\text{C}$ to $175^\circ\text{C}$
Operating junction temp range	$T_J$	$-40^\circ\text{C}$ to $175^\circ\text{C}$
Maximum thermal resistance	$L = 3/8^\circ$ $R_{\theta JL}$	68°C/W
	$L = 0$ $R_{\theta JL}$	35°C/W
Weight		.011 ounces (0.34 grams) typical

PH: 303-469-2161  
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# MS104, 105, 106

Figure 1  
Typical Forward Characteristics

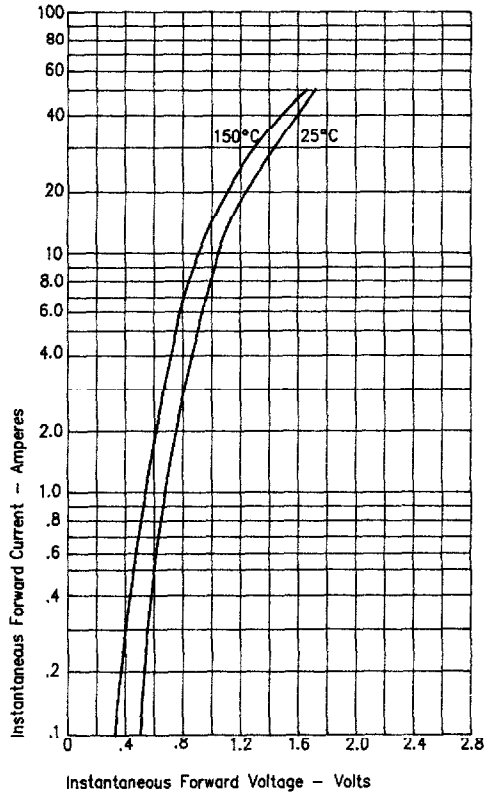


Figure 3  
Typical Junction Capacitance

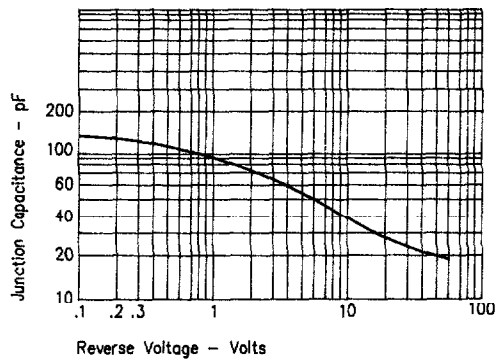


Figure 2  
Typical Reverse Characteristics

