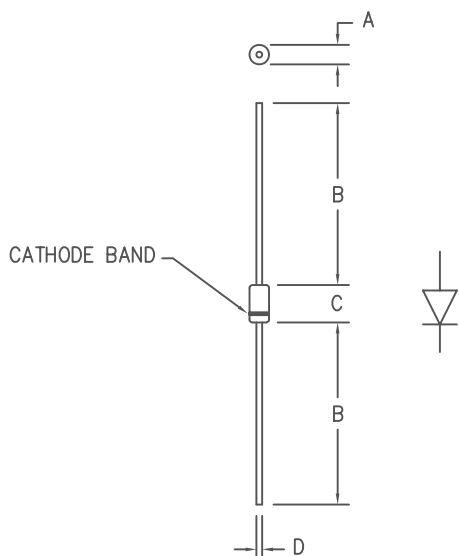


1 Amp Schottky Rectifier MS104 — MS106



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	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MS104		40V	40V
MS105	MBR150	50V	50V
MS106	MBR160 SR106	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	$T_L = 123^\circ C$ Square wave, $R_{\theta JL} = 25^\circ C/W$, $L = 1/4"$
Maximum surge current	I_{FSM} 50 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	V_{FM} .69 Volts	$I_{FM} = 1.0A$; $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM} 100 μA	V_{RRM} , $T_J = 25^\circ C$
Typical junction capacitance	C_J 53pF	$V_R = 5.0V$, $T_J = 25^\circ C$

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

Thermal and Mechanical

Storage temperature range	T_{STG}	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $175^\circ C$
Maximum thermal resistance	$L = 1/4"$ $R_{\theta JL}$	$25^\circ C/W$ Junction to Lead
Weight		.011 ounces (0.34 grams) typical



8700 East Thomas Road, P.O. Box 1390
Scottsdale, AZ 85252
PH: (480) 941-6300
FAX: (480) 947-1503
www.microsemi.com

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MS104 — MS106

Figure 1
Typical Forward Characteristics

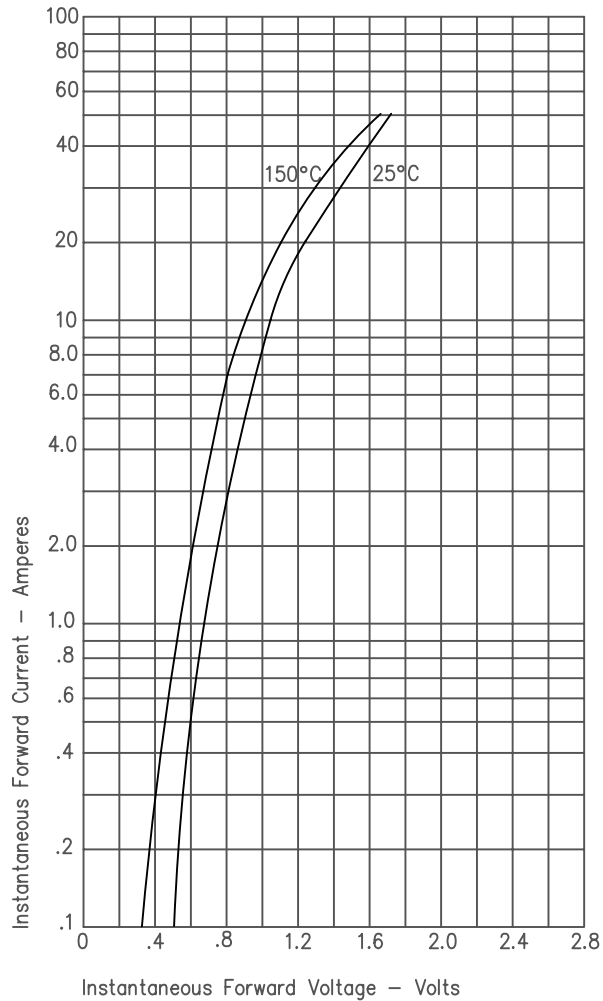


Figure 3
Typical Junction Capacitance

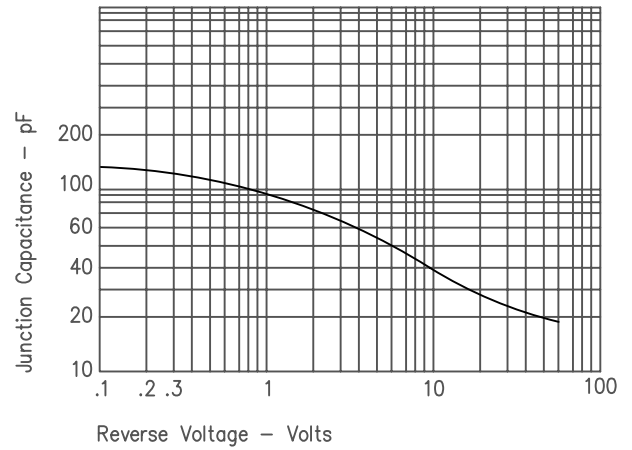


Figure 2
Typical Reverse Characteristics

