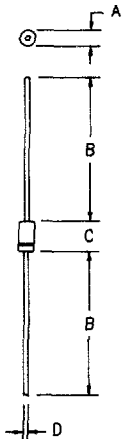


1 Amp Schottky Rectifier MSG104, 105, 106



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.

GLASS HERMETIC D041

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	
MSG104	40V	40V	<ul style="list-style-type: none"> • Schottky Barrier Rectifier • Guard Ring Protection • 175°C Junction Temperature • V_{RRM} 40 to 60 volts
MSG105	50V	50V	
MSG106	60V	60V	

Electrical Characteristics			
Average forward current	IF(AV) 1.0 Amps	TA = 150°C Square wave, RθJL = 35°C/W, L = 0"	
Average forward current	IF(AV) 1.0 Amps	TA = 133°C Square wave, RθJL = 60°C/W, L = 3/8"	
Maximum surge current	IFSM 75 Amps	8.3ms, half sine, TJ = 175°C	
Max peak forward voltage	VFM .51 Volts	IFM = 0.1A; TJ = 25°C*	
Max peak forward voltage	VFM .69 Volts	IFM = 1.0A; TJ = 25°C*	
Max peak reverse current	IRM 100 μA	VRRM, TJ = 25°C	
Typical junction capacitance	CJ 53pF	VR = 5.0V, IJ = 25°C	
*Pulse test: Pulse width 300 μsec, Duty cycle 2%			

Thermal and Mechanical			
Storage temperature range	TSTG	-40°C to 175°C	
Operating junction temp range	TJ	-40°C to 175°C	
Maximum thermal resistance	L = 3/8" RθJL	60°C/W	Junction to Lead
	L = 0" RθJL	35°C/W	Junction to Lead
Weight		.011 ounces (0.34 grams) typical	

PH: 303-469-2161
FAX: 303-466-3775

Microsemi Corp.
Colorado

C-51

MSG104, 105, 106

Figure 1
Typical Forward Characteristics

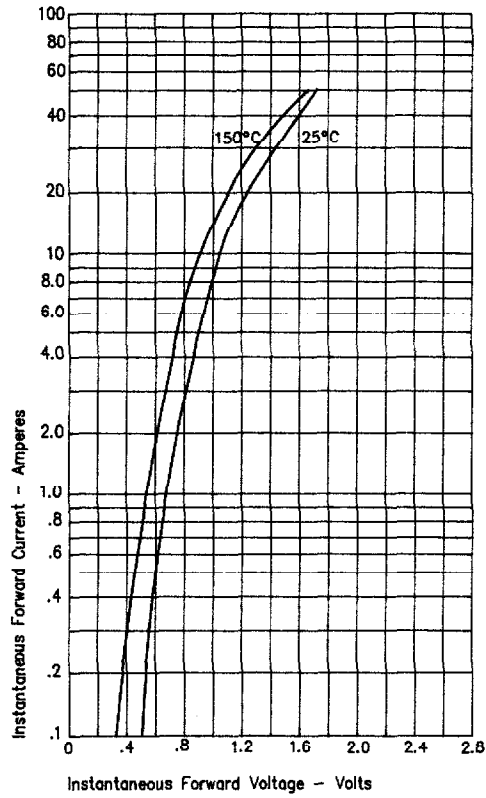


Figure 3
Typical Junction Capacitance

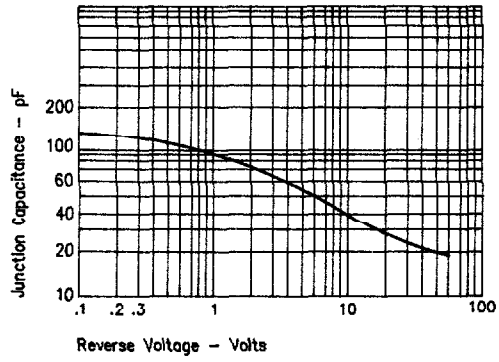


Figure 2
Typical Reverse Characteristics

