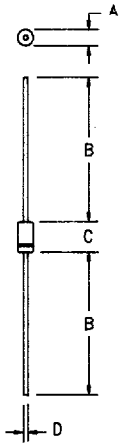


3 Amp Schottky Rectifier MS308, 309, 310



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.188	.260	4.78	6.50	Dia.
B	1.00	---	25.4	---	
C	.285	.375	7.24	9.52	
D	.046	.056	1.17	1.42	Dia.

PLASTIC D0201AD

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MS308	80V	80V
MS309	90V	90V
MS310	100V	100V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- VRRM 80 to 100 Volts

Electrical Characteristics		
Average forward current	I _{F(AV)} 3.0 Amps	T _A = 130°C, Square wave, R _{θJL} = 17°C/W, L = 1/8"
Average forward current	I _{F(AV)} 3.0 Amps	T _A = 115°C, Square wave, R _{θJL} = 23°C/W, L = 3/8"
Maximum surge current	I _{FSM} 150 Amps	8.3ms, half sine, T _J = 175°C
Max peak forward voltage	V _{FM} .67 Volts	I _{FM} = 1.0A; T _J = 25°C *
Max peak forward voltage	V _{FM} .81 Volts	I _{FM} = 3.0A; T _J = 25°C *
Max peak forward voltage	V _{FM} 1.0 Volts	I _{FM} = 9.4A; T _J = 25°C *
Max peak reverse current	I _{RM} 100 μA	V _{RRM, T_J} = 25°C
Typical junction capacitance	C _J 190 pF	V _R = 5.0V, T _J = 25°C

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

Thermal and Mechanical Characteristics		
Storage temperature range	T _{STG}	-40°C to 175°C
Operating junction temp range	T _J	-40°C to 175°C
Maximum thermal resistance	L = 1/8" R _{θJL}	17°C/W Junction to Lead
	L = 3/8" R _{θJL}	23°C/W Junction to Lead
Weight		.032 ounces (1.0 grams) typical

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Colorado

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C-65

MS308, 309, 310

Figure 1
Typical Forward Characteristics

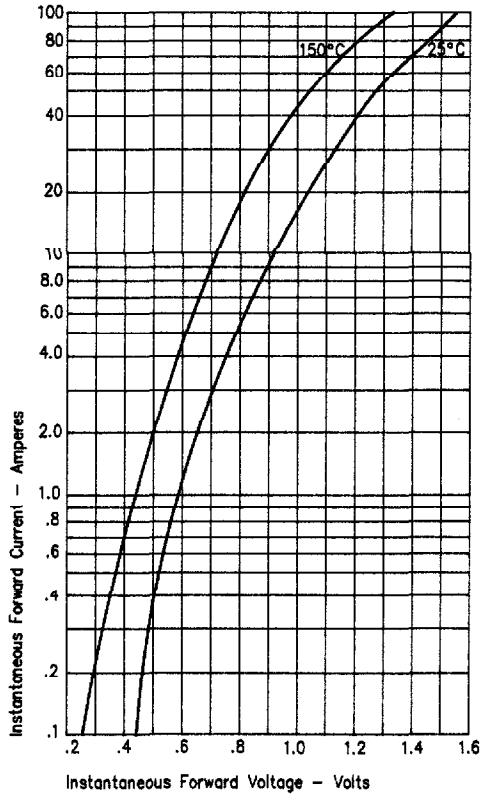


Figure 3
Typical Junction Capacitance

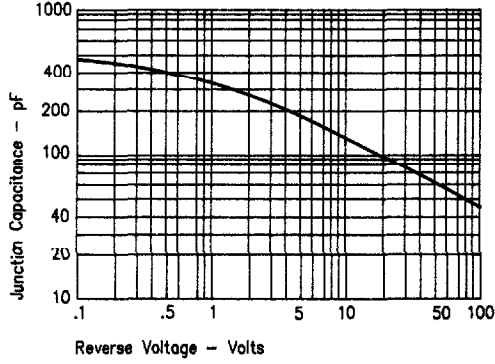


Figure 2
Typical Reverse Characteristics

