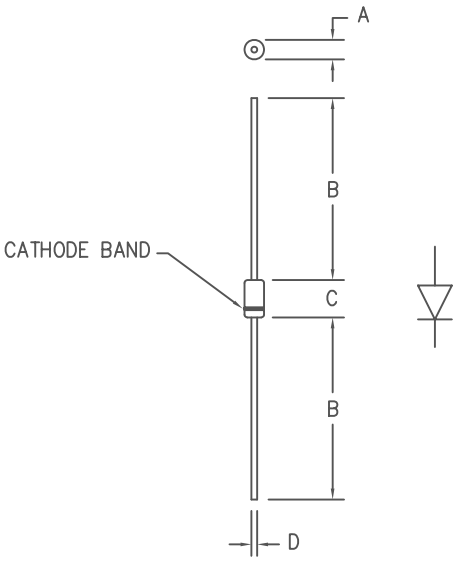
1 Amp Schottky Rectifier

MS110



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
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 DO41

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MS110	MBR1100 SR1010	100V	100V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- V_{RRM} 100 Volts

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 1.0 Amps	T_L = 118°C Square wave, $R_{\theta JL}$ = 25°C/W, L = 1/4"
Maximum surge current	I_{FSM} 50 Amps	8.3ms, half sine, T_J = 175°C
Max peak forward voltage	V_{FM} .83 Volts	I_{FM} = 1.0A; T_J = 25°C*
Max peak reverse current	I_{RM} 100 µA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 45pF	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}	−55°C to 175°C
Operating junction temp range		T_J	−55°C to 175°C
Maximum thermal resistance	L = 1/4"	$R_{\theta JL}$	25°C/W Junction to Lead
Weight			.011 ounces (0.34 grams) typical

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05-17-07 Rev. 2

MS110

Figure 1
Typical Forward Characteristics

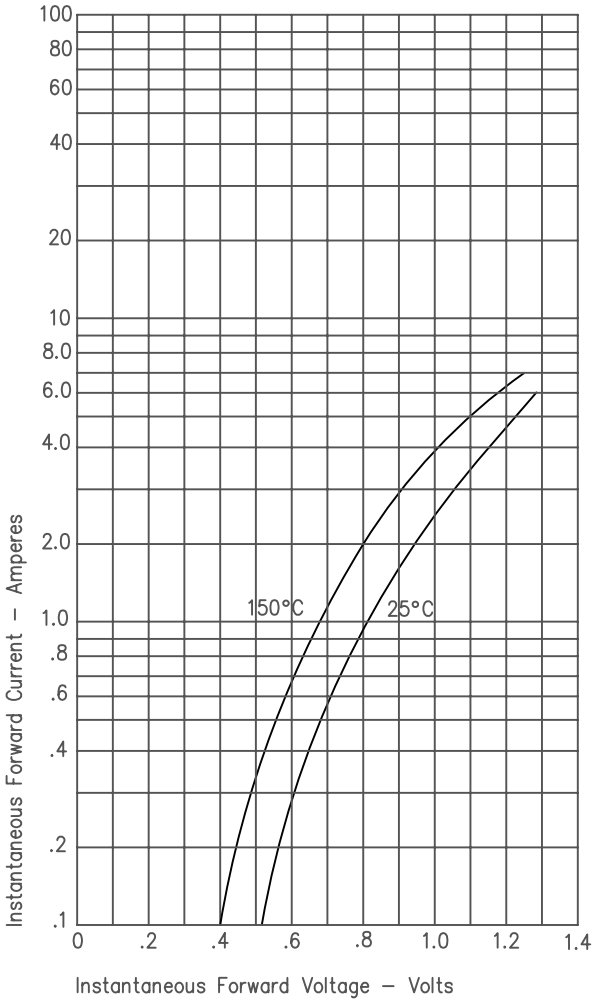

Figure 2
Typical Reverse Characteristics

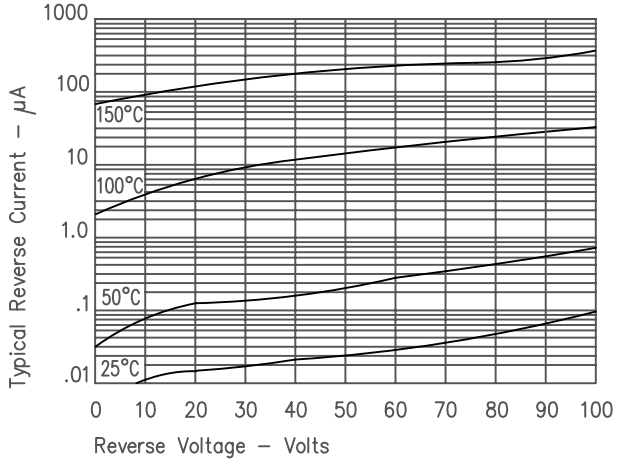

Figure 3
Typical Junction Capacitance