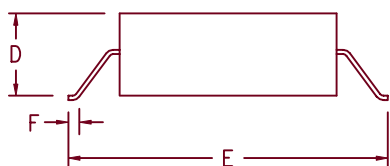
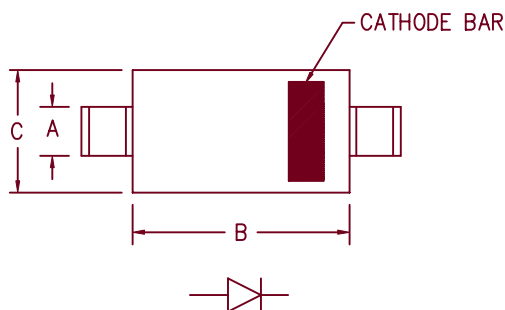


1 Amp Fast Recovery Rectifier MFS112 — MFS116

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Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.075	.095	1.90	2.41	
E	.270	.290	6.86	7.37	
F	.015	.030	.381	.762	

D0-215AA

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MFS112	1200V	1200V
MFS114	1400V	1400V
MFS116	1600V	1600V

- Fast Recovery Rectifier
- Surface Mount Package
- VRRM 1200 to 1600 Volts
- t_{RR} 500ns Max.
- 175°C Junction Temperature

Electrical Characteristics

Average forward current	$I_F(AV)$ 1.0 Amps	$T_L = 102^\circ C$, Square wave, $R_{\theta JL} = 20^\circ C/W$
Maximum surge current	I_{FSM} 25 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	V_{FM} 1.6 Volts	$I_{FM} = 1A$; $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM} 1.5 mA	$V_{RRM, T_J} = 125^\circ C$
Max peak reverse current	I_{RM} 10 μA	$V_{RRM, T_J} = 25^\circ C$
Max reverse recovery time	t_{RR} 500 ns	1/2A, 1A, 1/4A, $T_J = 25^\circ C$
Typical junction capacitance	C_J 6.5 pF	$T_J = 25^\circ C, V_R = 10V$

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

Thermal and Thermal Characteristics

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	$R_{\theta JL}$	$20^\circ C/W$ Junction to lead
Weight		.0047 ounces (.013 grams) typical

5-16-01 Rev. 1

MFS112 — MFS116

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Figure 1
Typical Forward Characteristics

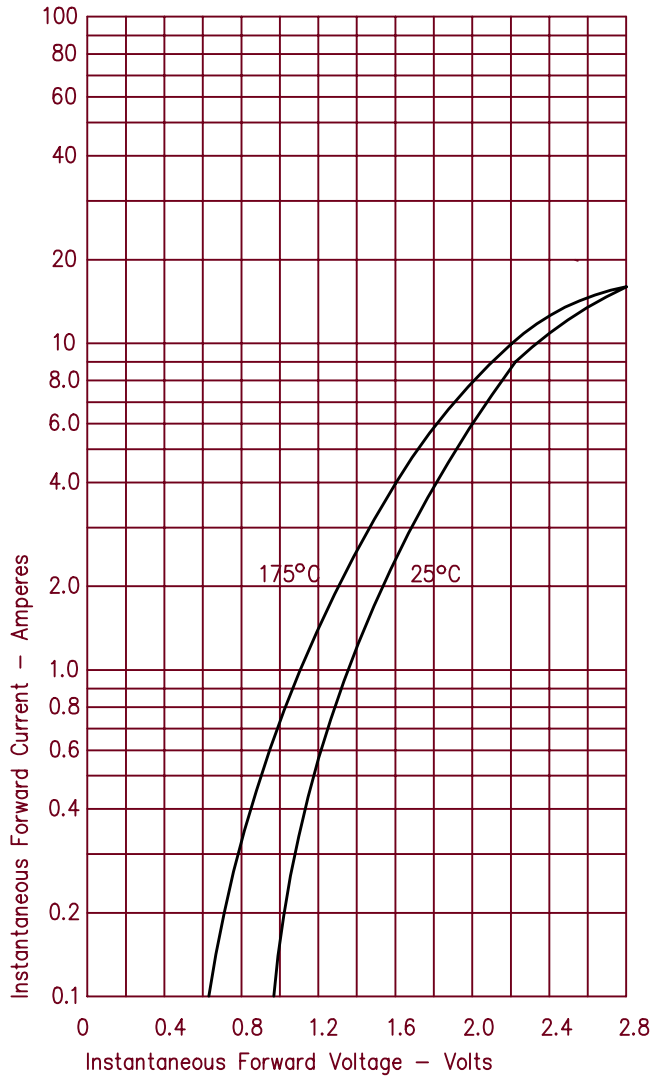


Figure 3
Typical Junction Capacitance

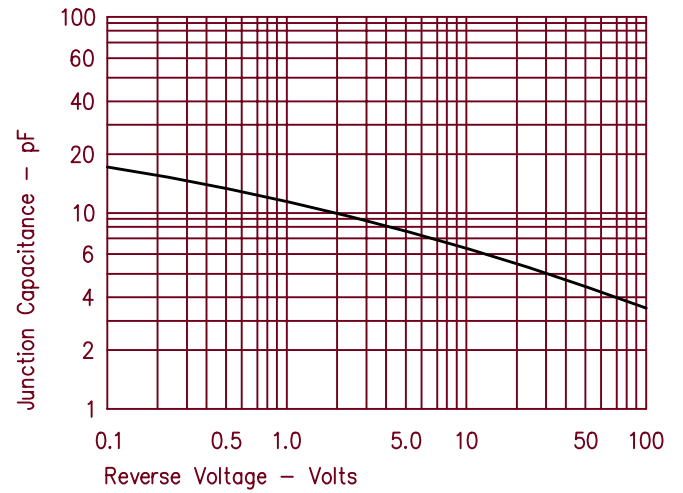


Figure 2
Typical Reverse Characteristics

