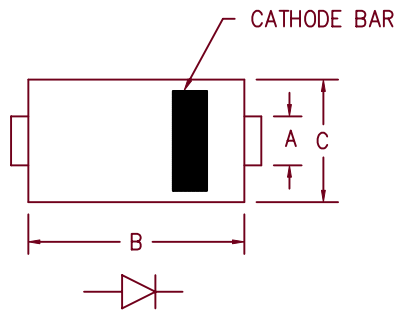
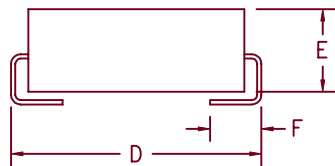


Ultra Fast Recovery Rectifiers

ERIM



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.073	.087	1.85	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.205	.220	5.21	5.59	
E	.075	.130	1.91	3.30	
F	.030	.060	.760	1.52	



DO-214BA Package

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
ERIM	1000V	1000V

- Ultra Fast Recovery
- 150°C Junction Temperature
- 1 Amp Current Rating
- t_{RR} 75nS Max.

Electrical Characteristics

Average forward current	$I_F(AV)$ 1.0 Amps	$T_A = 75^\circ C$
Maximum surge current	I_{FSM} 30 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	V_{FM} 1.60 Volts	$I_{FM} = 1.0A; T_J = 25^\circ C^*$
Max reverse recovery time	t_{RR} 100 nS	1/2A, 1A, 1/4A, $T_J = 25^\circ C$
Max peak reverse current	I_{RM} 5 μA	$V_{RRM}, T_J = 25^\circ C$
Typical junction capacitance	C_J 45 pF	$V_R = 4V, T_J = 25^\circ C$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	-55°C to 150°C
Operating junction temp range	T_J	-55°C to 150°C
Maximum thermal resistance	$R_{\theta JL}$	15°C/W Junction to lead
Weight		.0047 ounces (.013 grams) typical

12-19-02 Rev. 1

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Figure 1
Typical Forward Characteristics

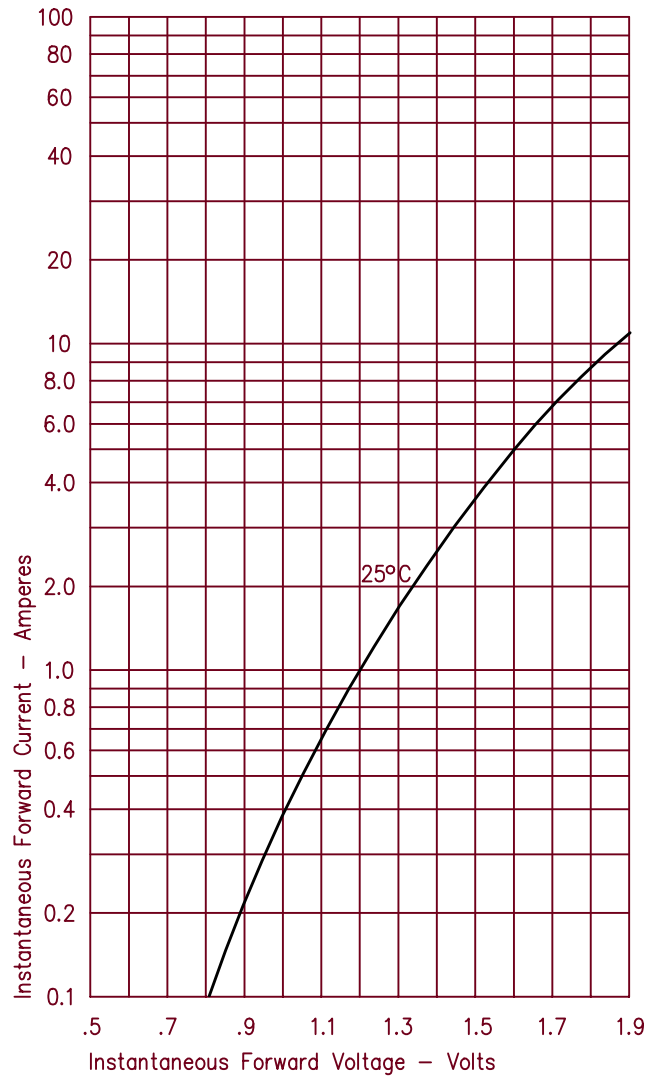


Figure 3
Typical Junction Capacitance

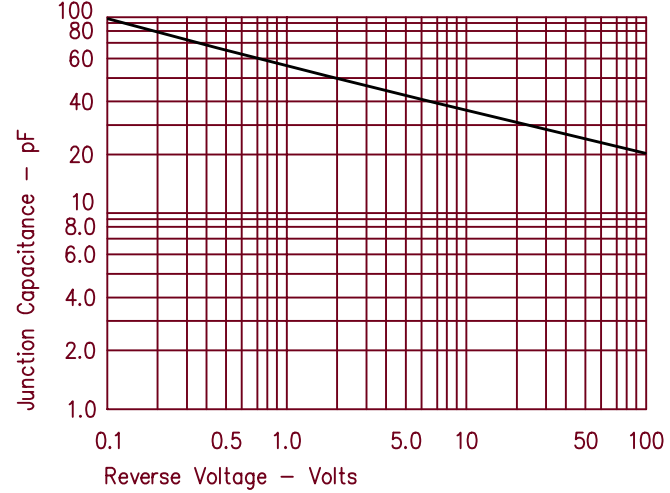


Figure 2
Typical Reverse Characteristics

