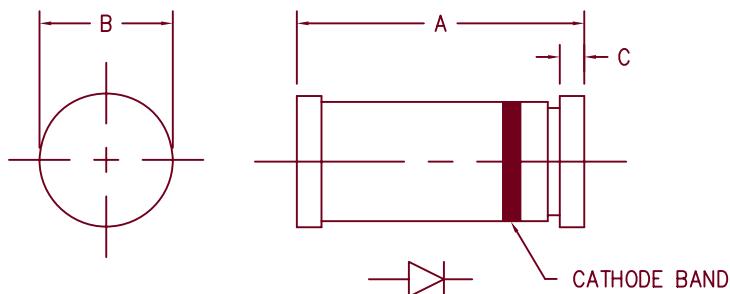


Ultra Fast Recovery Rectifier

UF110SM – UF120SM



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.189	.205	4.80	5.20	
B	.094	.105	2.39	2.66	
C	.016	.022	.41	.55	Dia.

GLASS HERMETIC D0213AB

Microsemi
Catalog Number
UF110SM
UF115SM
UF120SM

Working
Peak Reverse
Voltage
100V
150V
200V

Repetitive
Peak Reverse
Voltage
100V
150V
200V

- Ultra fast recovery
- 175°C junction temperature
- V_{RRM} 100 to 200 volts
- 1 Amp current rating
- t_{RR} 30nS max

Electrical Characteristics

Average forward current
Maximum surge current
Max peak forward voltage
Max reverse recovery time
Max peak reverse current
Typical junction capacitance

I_{F(AV)} 1.0 Amps
I_{FSM} 25 Amps
V_{FM} 1.0 Volts
t_{RR} 30 nS
I_{RM} 5 μA
C_J 7 pF

T_A = 130°C Square wave, R_{θJEC} = 45°C/W
8.3 ms, half sine, T_J = 175°C
I_{FM} = 1.0A; T_J = 25°C*
1/2A, 1A, 1/4A, T_J = 25°C
V_{RRM}, T_J = 25°C
V_R = 10V, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
T_J
R_{θJEC}

-65°C to 175°C
-65°C to 175°C
45°C/W Junction to end cap
.004 ounces (0.012 grams) typical

UF110SM – UF120SM

Figure 1
Maximum Forward Characteristics

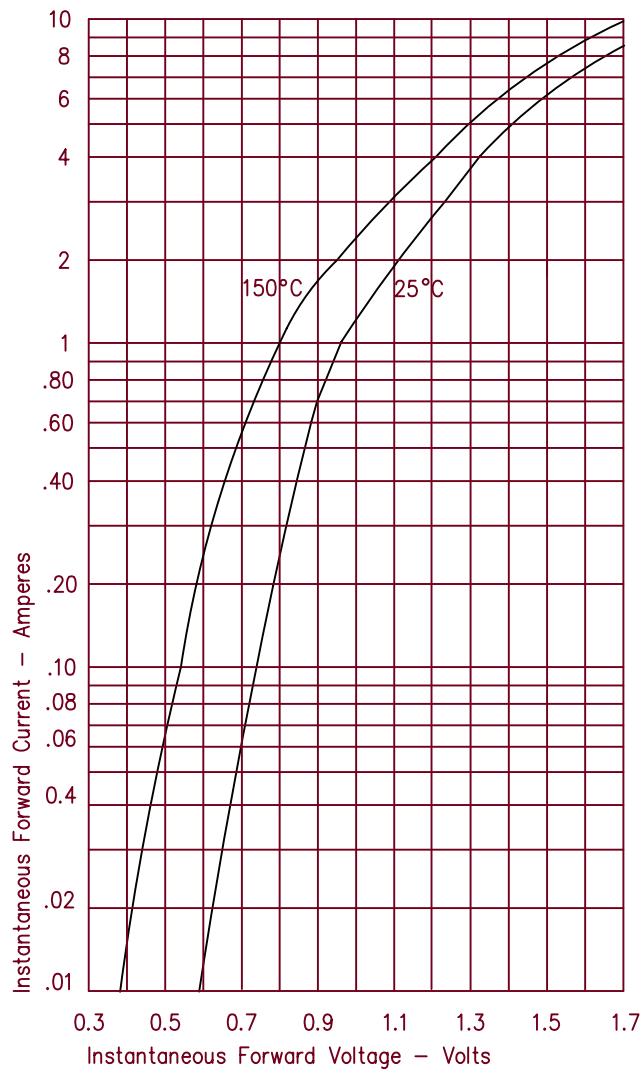


Figure 3
Typical Junction Capacitance

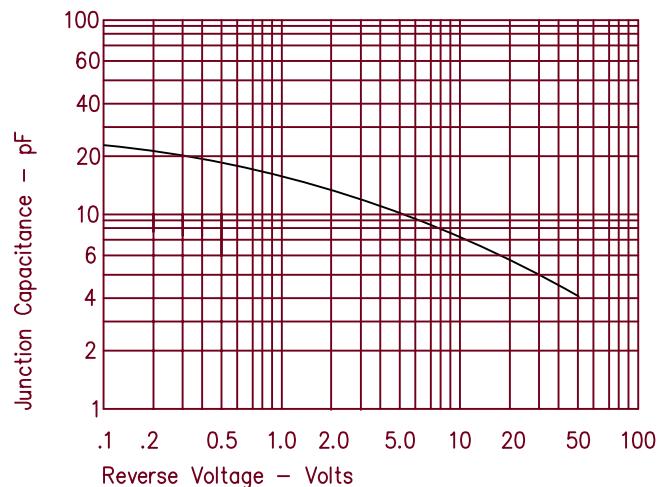


Figure 2
Typical Reverse Characteristics

