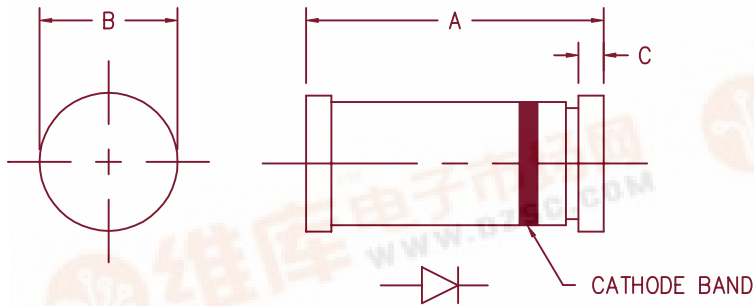


Ultra Fast Recovery Rectifier UF110SM — UF120SM



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

GLASS HERMETIC DO213AB

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

$T_A = 130^\circ C$ Square wave, $R_{\theta JC} = 45^\circ C/W$
8.3 ms, half sine, $T_J = 175^\circ C$
 $I_{FM} = 1.0A$: $T_J = 25^\circ C^*$
1/2A, 1A, 1/4A, $T_J = 25^\circ C$
 V_{RRM} , $T_J = 25^\circ C$
 $V_R = 10V$, $T_J = 25^\circ C$

*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
 $R_{\theta JC}$

$-65^\circ C$ to $175^\circ C$
 $-65^\circ C$ to $175^\circ C$
 $45^\circ C/W$ Junction to end cap
.004 ounces (0.012 grams) typical

UF110SM — UF120SM

Figure 1
Maximum Forward Characteristics

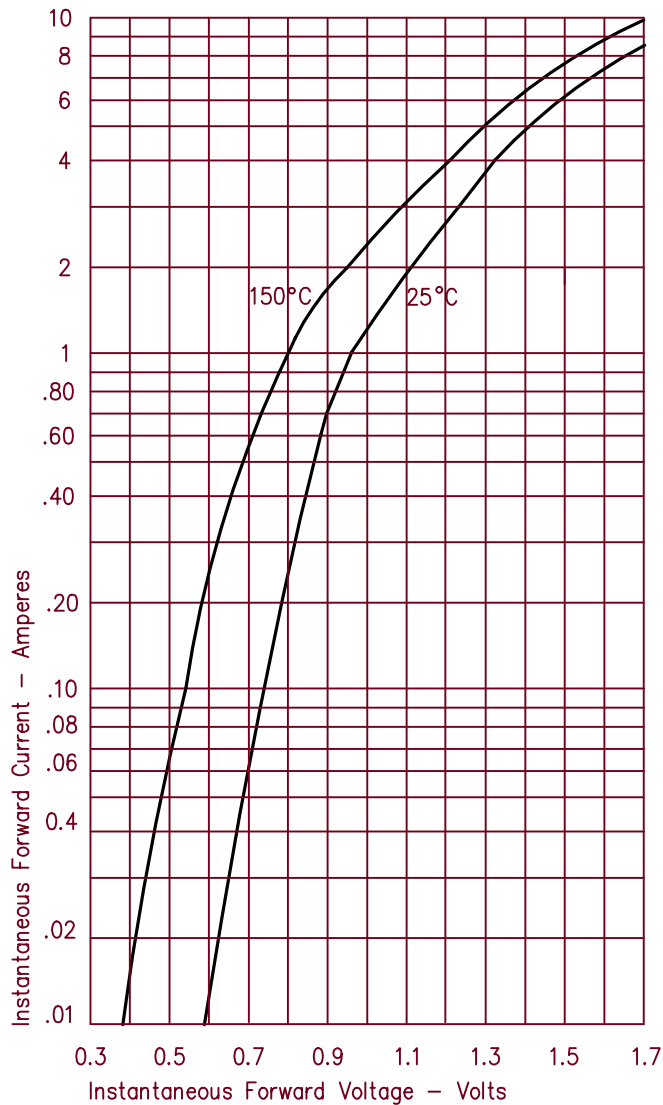


Figure 2
Typical Reverse Characteristics

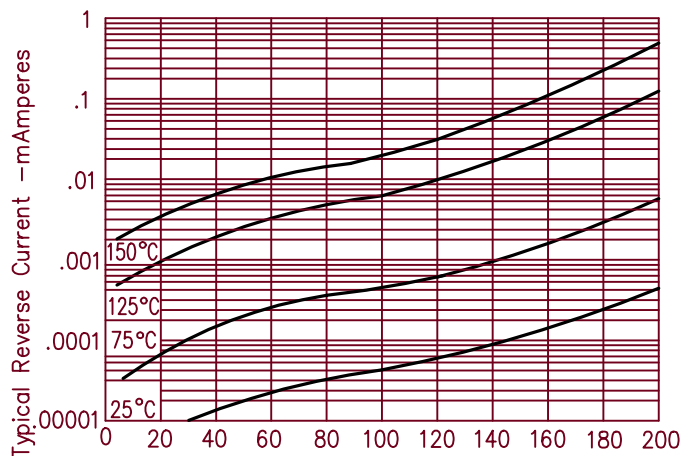


Figure 3
Typical Junction Capacitance

