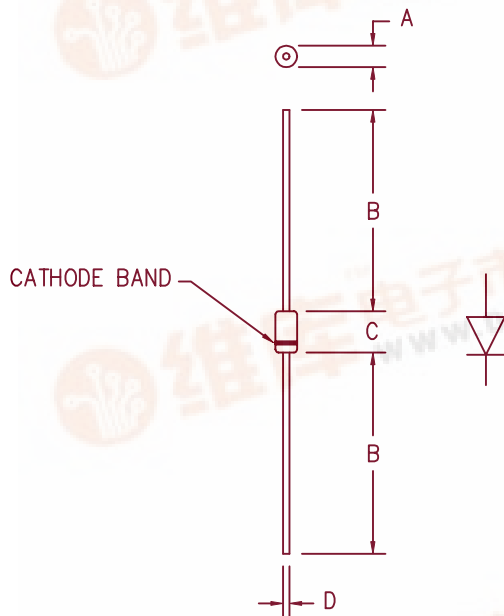


Ultra Fast Recovery Rectifiers

UF310 — UF320



	Dim. Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.188	.260	4.78	6.50	Dia.
B	1.00	---	25.4	---	
C	.285	.375	7.24	9.52	
D	.046	.056	1.17	1.42	Dia.

PLASTIC D0201AD

Microsemi
Catalog Number

UF310
UF315
UF320

Working Peak
Reverse Voltage

100V
150V
200V

Repetitive Peak
Reverse Voltage

100V
150V
200V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 100 to 200 Volts
- 3 Amp Current Rating
- ^tRR 30 ns Max.

Electrical Characteristics

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

I_{F(AV)} 3.0 Amps
I_{F(AV)} 3.0 Amps
I_{FSM} 100 Amps
V_{FM} .95 Volts
^tRR 30 ns
I_{RM} 10 μ A
C_J 38 pF

T_A = 126°C, Square wave, R θ JL = 17°C/W, L = 1/8"
T_A = 109°C, Square wave, R θ JL = 23°C/W = 3/8"
8.3ms, half sine, T_J = 175°C
I_{FM} = 3.0A: 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 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance

T_{STG}
T_J
L = 1/8" R θ JL
L = 3/8" R θ JL

-55°C to 175°C
-55°C to 175°C
17°C/W Junction to Lead
23°C/W Junction to Lead
.011 ounces (0.34 grams) typical

Weight

UF310 — UF320

Figure 1
Typical Forward Characteristics

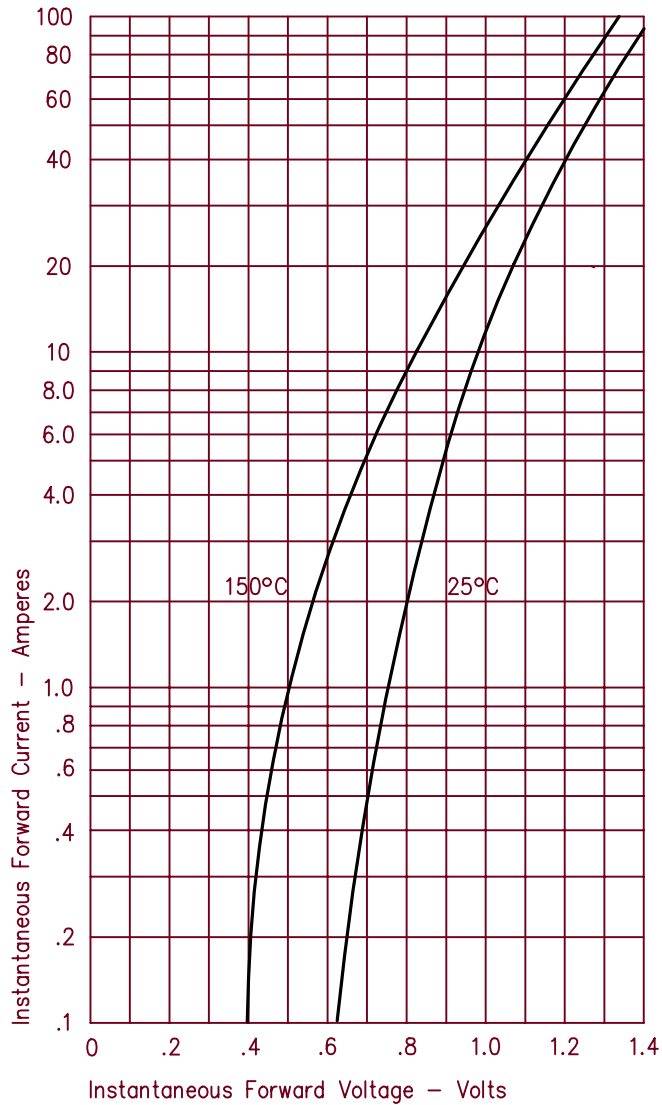


Figure 3
Typical Junction Capacitance

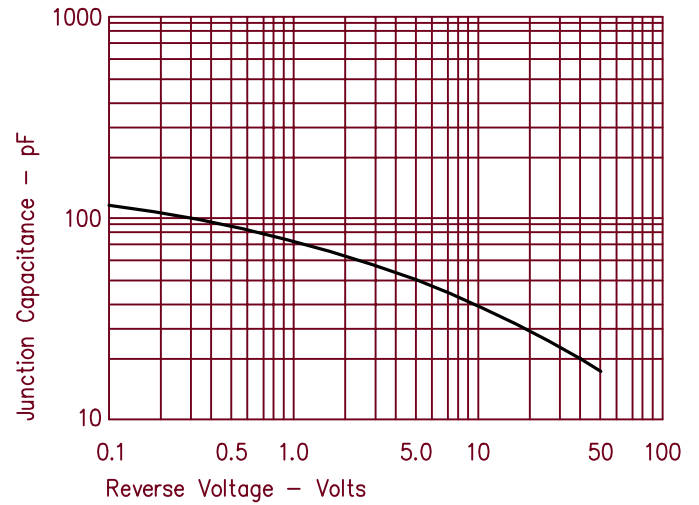


Figure 2
Typical Reverse Characteristics

