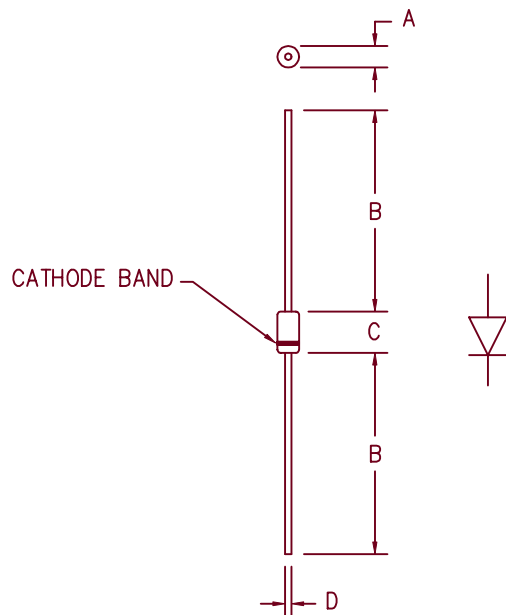


Ultra Fast Recovery Rectifiers

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
- t_{RR} 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
 t_{RR} 30 ns
 I_{RM} 10 μ A
 C_J 38 pF

$T_A = 126^\circ\text{C}$, Square wave, $R_{\theta JL} = 17^\circ\text{C/W}$, $L = 1/8"$
 $T_A = 109^\circ\text{C}$, Square wave, $R_{\theta JL} = 23^\circ\text{C/W} = 3/8"$
8.3ms, half sine, $T_J = 175^\circ\text{C}$
 $I_{FM} = 3.0\text{A}$; $T_J = 25^\circ\text{C}^*$
1/2A, 1A, 1/4A, $T_J = 25^\circ\text{C}$
 V_{RRM} , $T_J = 25^\circ\text{C}$
 $V_R = 10\text{V}$, $T_J = 25^\circ\text{C}$

*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
 $L = 1/8"$ $R_{\theta JL}$
 $L = 3/8"$ $R_{\theta JL}$

-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

7-18-00 Rev. 1

UF310 — UF320

Figure 1
Typical Forward Characteristics

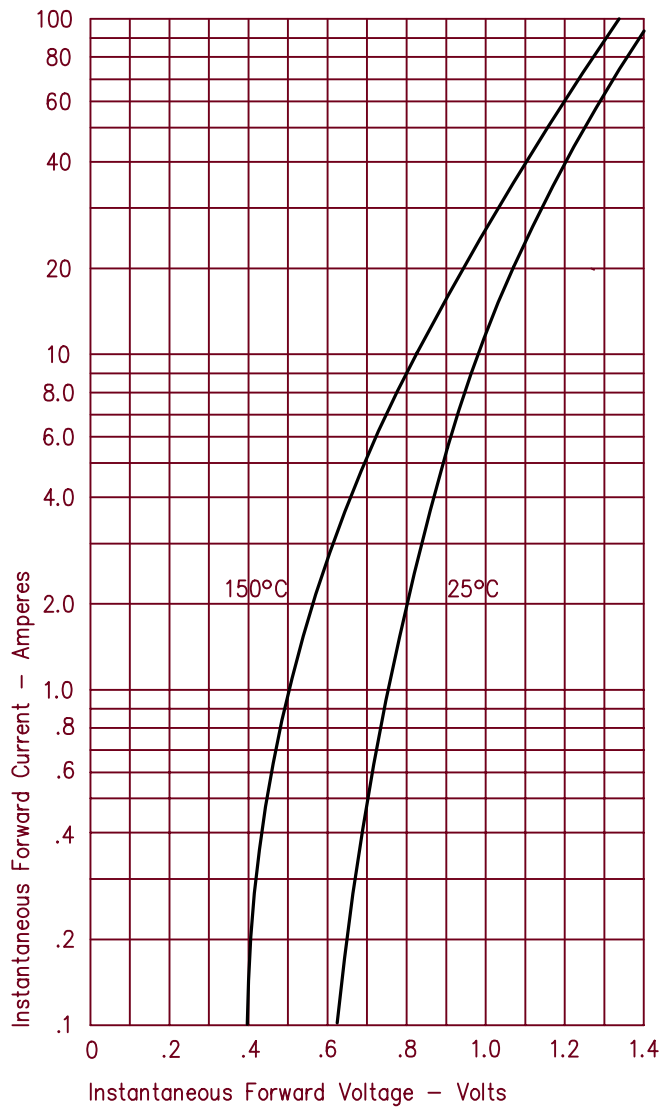


Figure 3
Typical Junction Capacitance

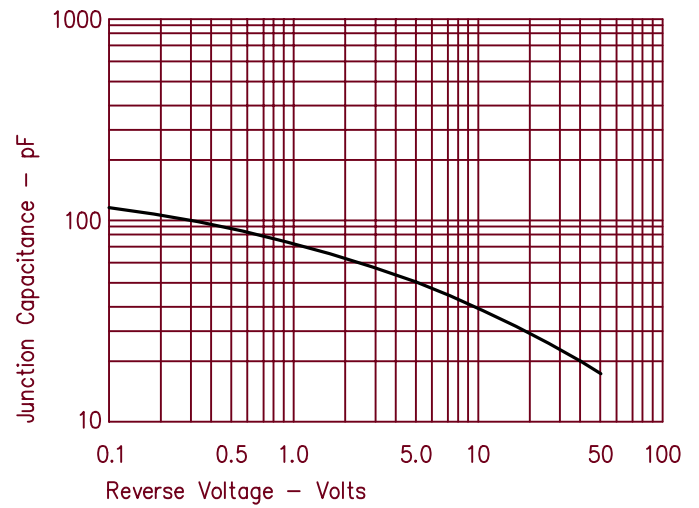


Figure 2
Typical Reverse Characteristics

