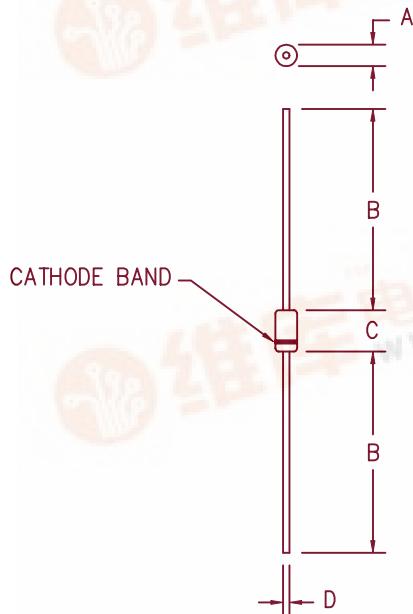


Ultra Fast Recovery Rectifiers

UF530 - UF550



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

Working
Peak Reverse
Voltage

Repetitive
Peak Reverse
Voltage

UF530 300V
UF540 400V
UF550 500V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 300 to 500 Volts
- 5 Amp Current Rating
- t_{RR} 50 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

| F(AV) 5.0 Amps
| F(AV) 5.0 Amps
| FSM 175 Amps
V FM 1.2 Volts
 t_{RR} 50 ns
I RM 10 μ A
C_J 28pF

T_A = 110°C, Square wave, R_{θJL} = 11°C/W, L = 1/8"
T_A = 90°C, Square wave, R_{θJL} = 14.7°C/W, L = 3/8"
8.3ms, half sine, T_J = 175°C
I_{FM} = 5.0A; 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_{θJL}
L = 3/8" R_{θJL}

-55°C to 175°C
-55°C to 175°C
11°C/W Junction to Lead
14.7°C/W Junction to Lead
.011 ounces (0.34 grams) typical

Weight

UF530 - UF550

Figure 1
Typical Forward Characteristics



Figure 3
Typical Junction Capacitance

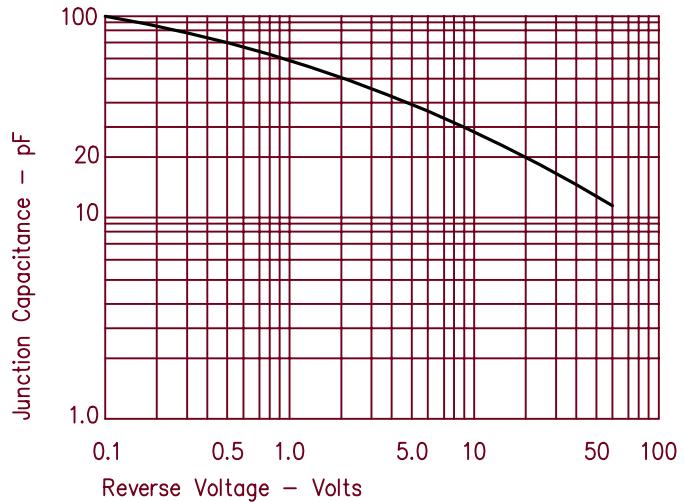


Figure 2
Typical Reverse Characteristics

