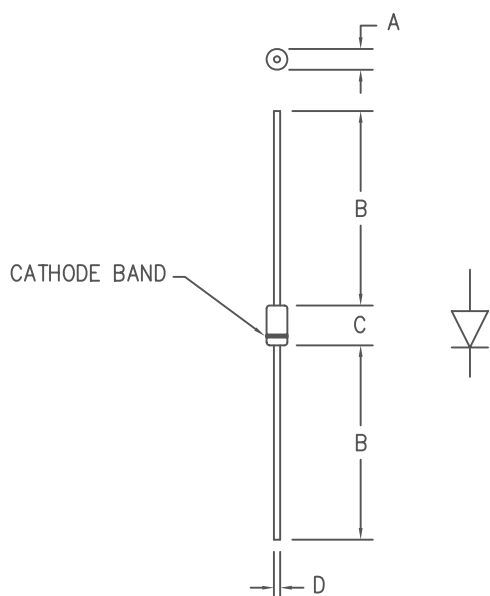


Ultra Fast Recovery Rectifiers

UF510 — UF520



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
UF510	100V	100V
UF515	150V	150V
UF520	200V	200V

• Ultra Fast Recovery • 175°C Junction Temperature • VRRM 100 to 200 Volts • 5 Amp Current Rating • ^tRR 30 ns Max.

Electrical Characteristics		
Average forward current	I _{F(AV)} 5.0 Amps	T _L = 110°C, Square wave, R _{θJL} = 12°C/W, L = 3/8"
Maximum surge current	I _{FSM} 175 Amps	8.3ms, half sine, T _J = 175°C
Max peak forward voltage	V _{FM} .95 Volts	I _{FM} = 5.0A: T _J = 25°C*
Max reverse recovery time	^t RR 30 ns	1/2A, 1A, 1/4A, T _J = 25°C
Max peak reverse current	I _{RM} 10 μA	V _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 58 pF	V _R = 10V, T _J = 25°C
*Pulse test: Pulse width 300 μsec, Duty cycle 2%		

Thermal and Mechanical Characteristics		
Storage temperature range	T _{STG}	-55°C to 175°C
Operating junction temp range	T _J	-55°C to 175°C
Maximum thermal resistance	L = 3/8" R _{θJL}	12°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical



SCOTTSDALE

Microsemi

8700 East Thomas Road, P.O. Box 1390
Scottsdale, AZ 85252
PH: (480) 941-6300
FAX: (480) 947-1503
www.microsemi.com

05-07-07 Rev. 3

UF510 — UF520

Figure 1
Typical Forward Characteristics

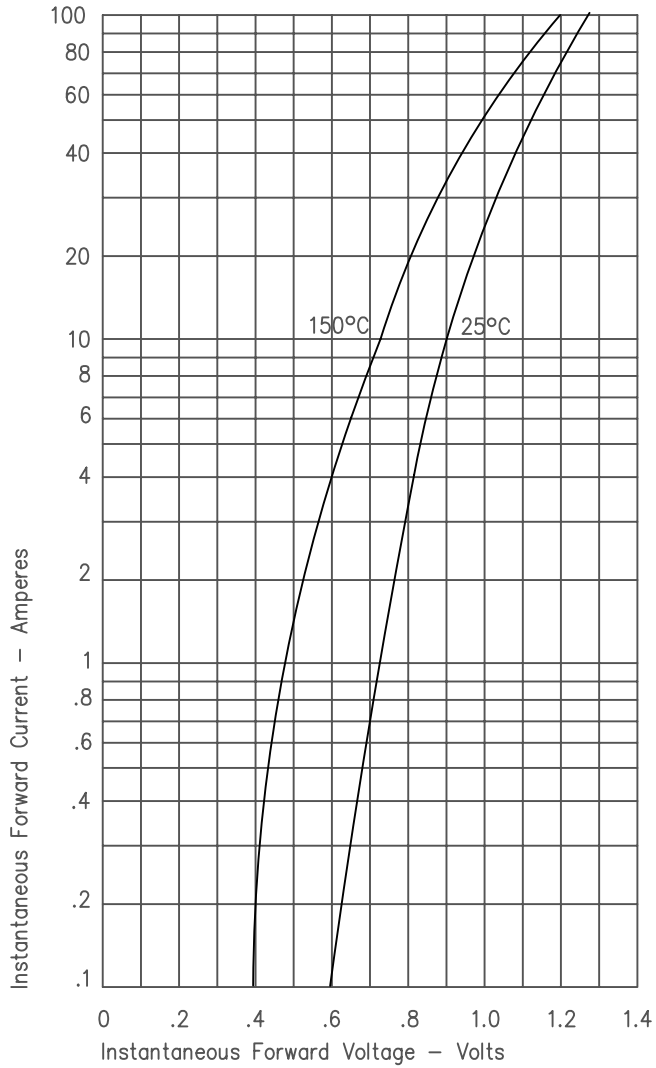


Figure 3
Typical Junction Capacitance

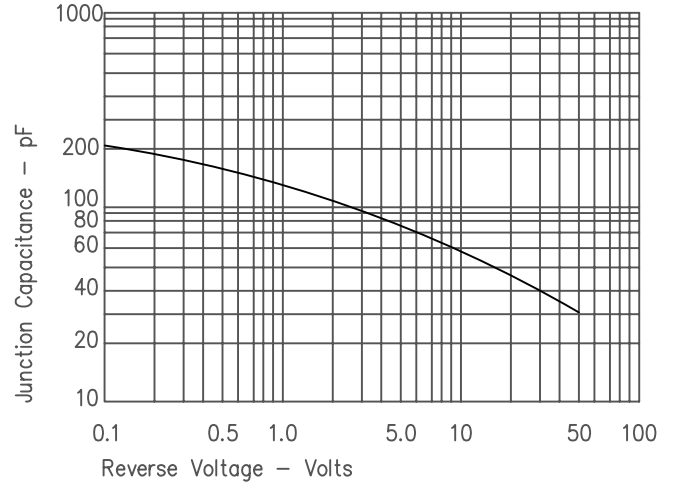


Figure 2
Typical Reverse Characteristics

