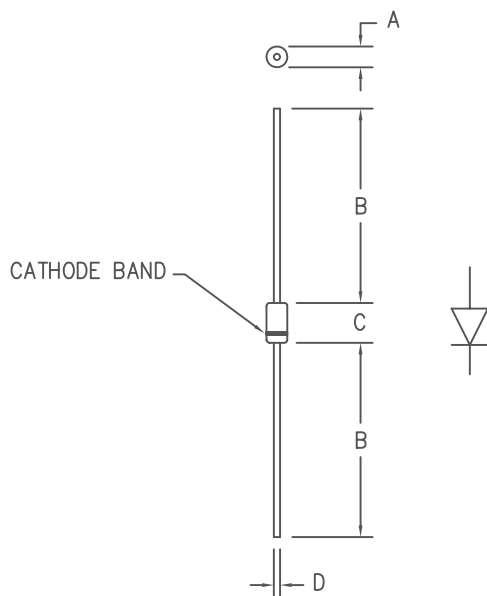


Ultra Fast Recovery Rectifiers

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	• Ultra Fast Recovery • 175°C Junction Temperature • VRRM 100 to 200 Volts • 5 Amp Current Rating • t_{RR} 30 ns Max.
UF510	100V	100V	
UF515	150V	150V	
UF520	200V	200V	

Electrical Characteristics		
Average forward current	$I_F(AV)$ 5.0 Amps	$T_L = 110^\circ C$, Square wave, $R_{\theta JL} = 12^\circ C/W$, $L = 3/8"$
Maximum surge current	I_{FSM} 175 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	V_{FM} .95 Volts	$I_{FM} = 5.0A$; $T_J = 25^\circ C^*$
Max reverse recovery time	t_{RR} 30 ns	1/2A, 1A, 1/4A, $T_J = 25^\circ C$
Max peak reverse current	I_{RM} 10 μA	$V_{RRM}, T_J = 25^\circ C$
Typical junction capacitance	C_J 58 pF	$V_R = 10V, T_J = 25^\circ C$
*Pulse test: Pulse width 300 μsec , Duty cycle 2%		

Thermal and Mechanical Characteristics		
Storage temperature range	T_{STG}	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $175^\circ C$
Maximum thermal resistance	$L = 3/8"$ $R_{\theta JL}$	12°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical

UF510 — UF520

Figure 1
Typical Forward Characteristics

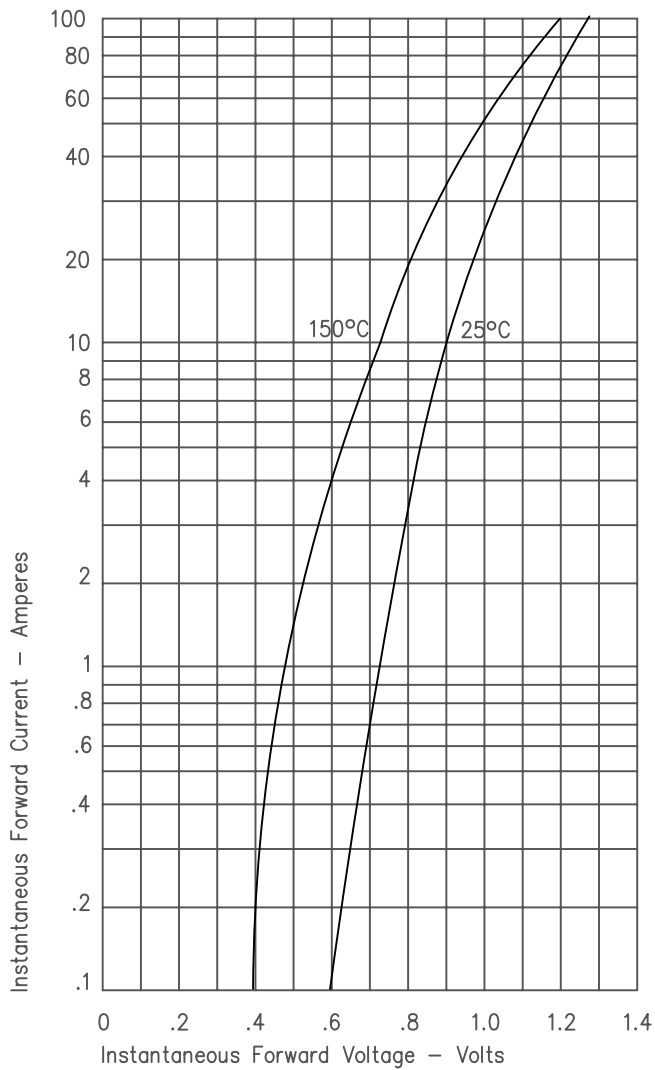


Figure 3
Typical Junction Capacitance

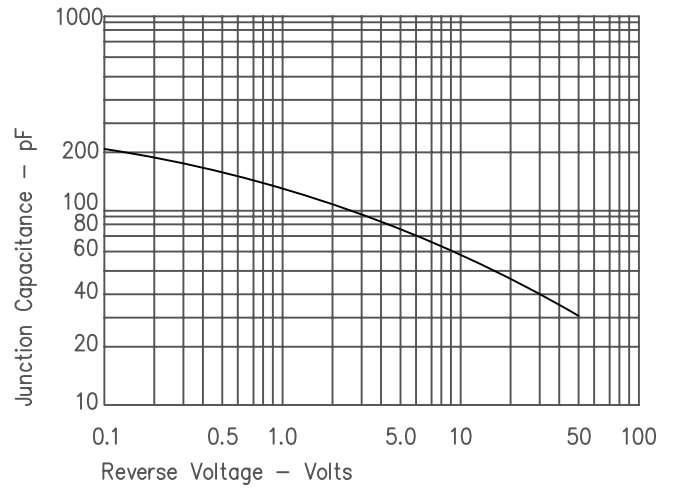


Figure 2
Typical Reverse Characteristics

