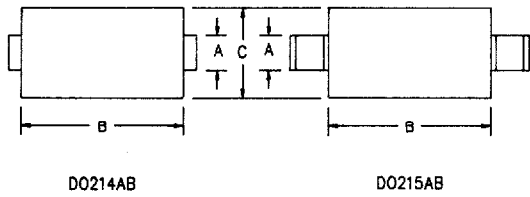
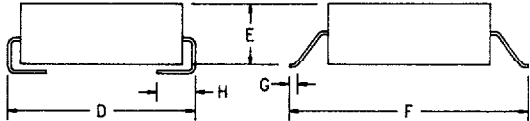


Ultra Fast Recovery Rectifiers

UFS505, 510, 515, 520



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.21	2.97	
B	.260	.280	4.57	6.60	
C	.220	.245	3.94	5.58	
D	.307	.322	5.59	7.80	
E	.075	.095	1.90	2.41	
F	.380	.400	6.86	7.37	
G	.025	.040	.381	.762	
H	.030	.060	.760	1.52	



Microsemi Catalog Number	Peak Reverse Voltage	Peak Reverse Voltage
*UFS505	50V	50V
*UFS510	100V	100V
*UFS515	150V	150V
*UFS520	200V	200V

*Add Suffix J For J Lead or G For Gull Wing Lead Configuration

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 50 to 200 Volts
- 5 Amp current rating
- ^tRR 30ns Max.

Electrical Characteristics		
Average forward current	I _{F(AV)} 5.0 Amps	Square wave
Maximum surge current	I _{FSM} 175 Amps	R.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
Typical reverse recovery time	^t RR 20 ns	1/2A, 1A, 1/4A, T _J = 25°C
Max peak reverse current	I _{RM} 2 mA	V _{RRM} , T _J = 150°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}	-40°C to 175°C
Operating junction temp range	T _J	-40°C to 175°C
Weight		.008 ounces (.22 grams) typical



PH: 303-469-2161
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UFS505, 510, 515, 520

Figure 1
Typical Forward Characteristics

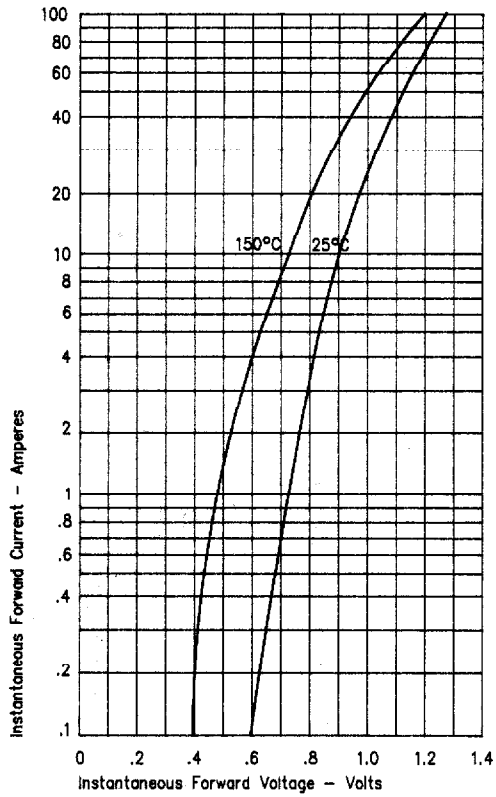


Figure 3
Typical Junction Capacitance

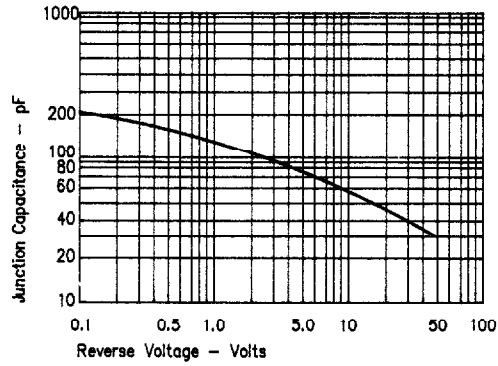


Figure 2
Typical Reverse Characteristics

