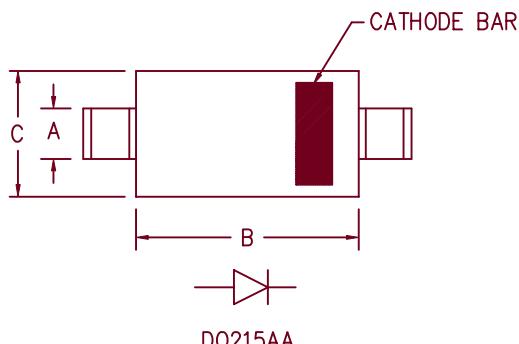
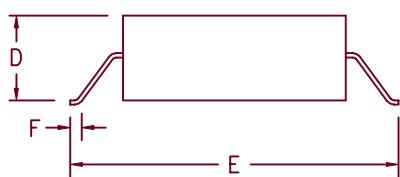


# Ultra Fast Recovery Rectifiers

## UFS110G — UFS120G



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.075	.095	1.90	2.41	
E	.270	.290	6.86	7.37	
F	.015	.030	.381	.762	



Microsemi  
Catalog Number

Working  
Peak Reverse  
Voltage

UFS110G      100V  
UFS115G      150V  
UFS120G      200V

Repetitive  
Peak Reverse  
Voltage

100V  
150V  
200V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 100 to 200 Volts
- 1 Amp Current Rating
- t<sub>RR</sub> 30ns Max.

### Electrical Characteristics

Average forward current  
Maximum surge current  
Max peak forward voltage  
Max peak forward voltage  
Max reverse recovery time  
Max peak reverse current  
Typical junction capacitance

I<sub>F(AV)</sub> 1.0 Amps  
I<sub>FSM</sub> 35 Amps  
V<sub>FM</sub> .75 Volts  
V<sub>FM</sub> .95 Volts  
t<sub>RR</sub> 30 ns  
I<sub>RM</sub> 5  $\mu$ A  
C<sub>J</sub> 10 pF

T<sub>L</sub> = 140°C, Square wave, R<sub>θJL</sub> = 25°C/W  
8.3ms, half sine, T<sub>J</sub> = 175°C  
I<sub>FM</sub> = 0.1A: T<sub>J</sub> = 25°C\*  
I<sub>FM</sub> = 1.0A: T<sub>J</sub> = 25°C\*  
1/2A, 1A, 1/4A, T<sub>J</sub> = 25°C  
V<sub>R</sub> = 10V, T<sub>J</sub> = 25°C  
V<sub>R</sub> = 10V, T<sub>J</sub> = 25°C

\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

### Thermal and Thermal Characteristics

Storage temperature range  
Operating junction temp range  
Maximum thermal resistance  
Weight

T<sub>STG</sub>  
T<sub>J</sub>  
R<sub>θJL</sub>

-55°C to 175°C  
-55°C to 175°C  
25°C/W Junction to lead  
.0047 ounces (.013 grams) typical

# UFS110G – UFS120G

Figure 1  
Typical Forward Characteristics

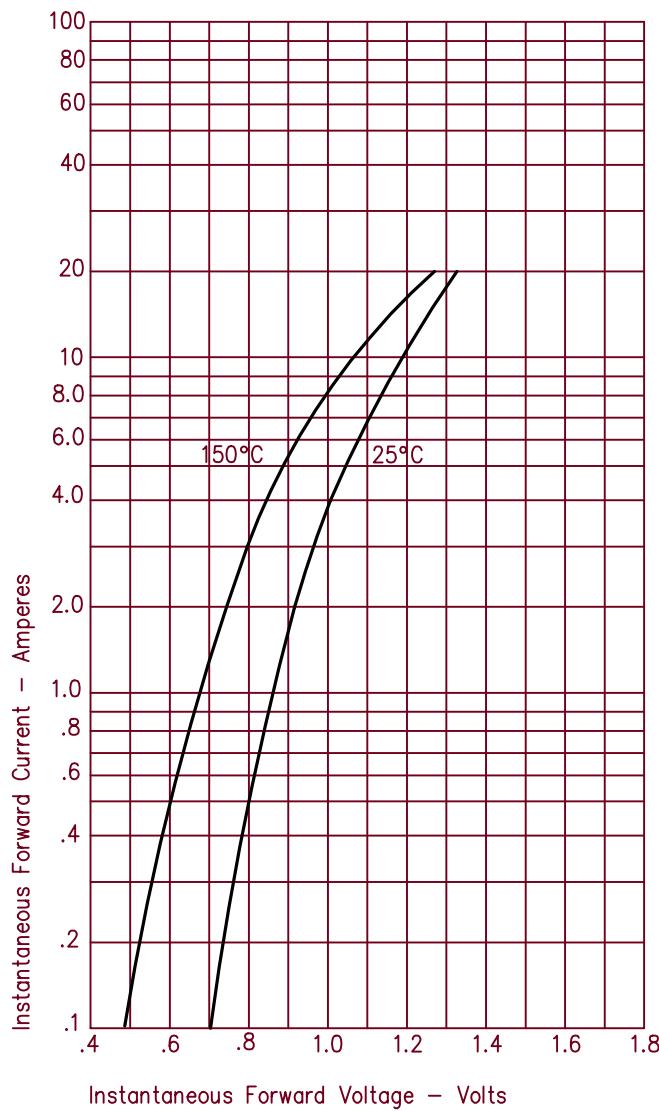


Figure 3  
Typical Junction Capacitance

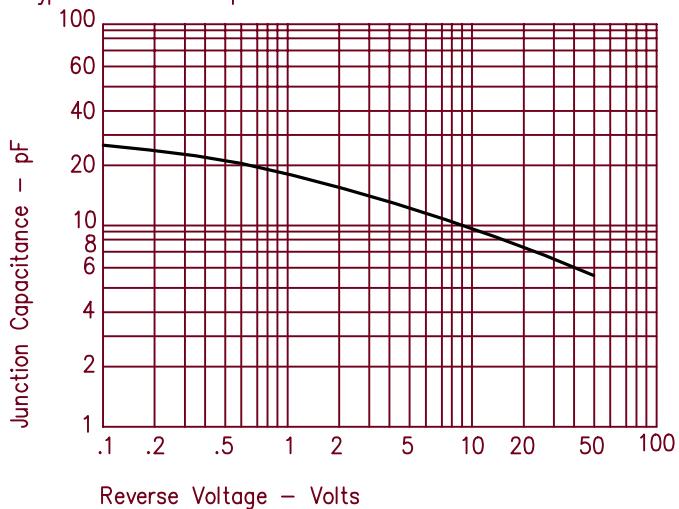


Figure 2  
Typical Reverse Characteristics

