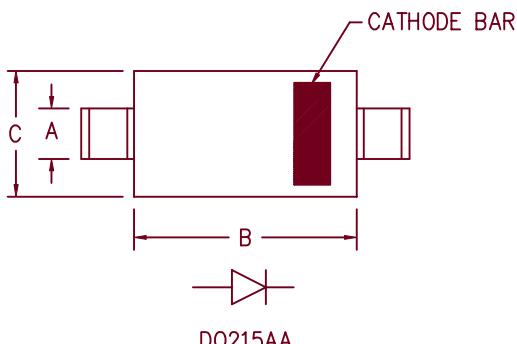
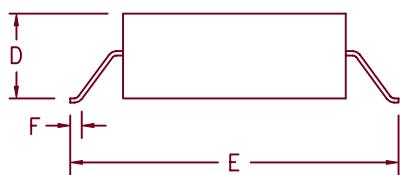


Ultra Fast Recovery Rectifiers

UFS130G — UFS150G



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	Repetitive Peak Reverse Voltage
UFS130G	300V	300V
UFS140G	400V	400V
UFS150G	500V	500V

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

Electrical Characteristics

Average forward current	I _{F(AV)} 1.0 Amps	T _L = 138°C, Square wave R _{θJL} = 25°C/W
Maximum surge current	I _{FSM} 30 Amps	8.3ms, half sine, T _J = 175°C
Max peak forward voltage	V _{FM} .80 Volts	I _{FM} = 0.1A: T _J = 25°C*
Max peak forward voltage	V _{FM} 1.1 Volts	I _{FM} = 1.0A: T _J = 25°C*
Max reverse recovery time	t _{RR} 50 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 2.5 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	R _{θJL}	25°C/W Junction to lead
Weight		.0047 ounces (.013 grams) typical

UFS130G - UFS150G

Figure 1
Typical Forward Characteristics

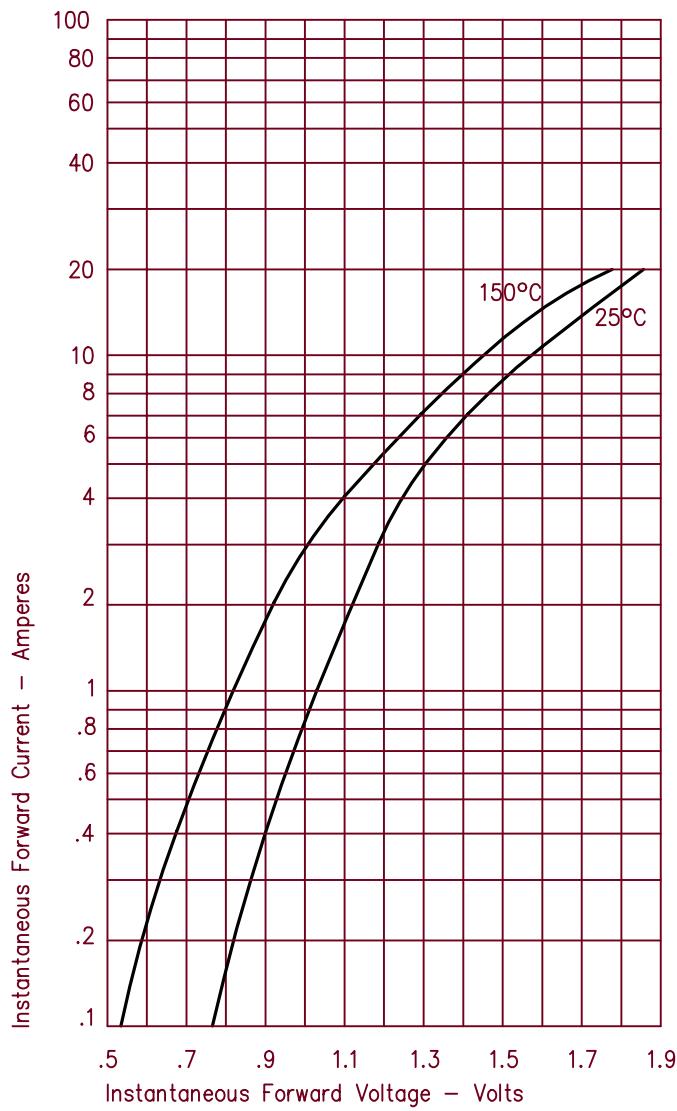


Figure 3
Typical Junction Capacitance

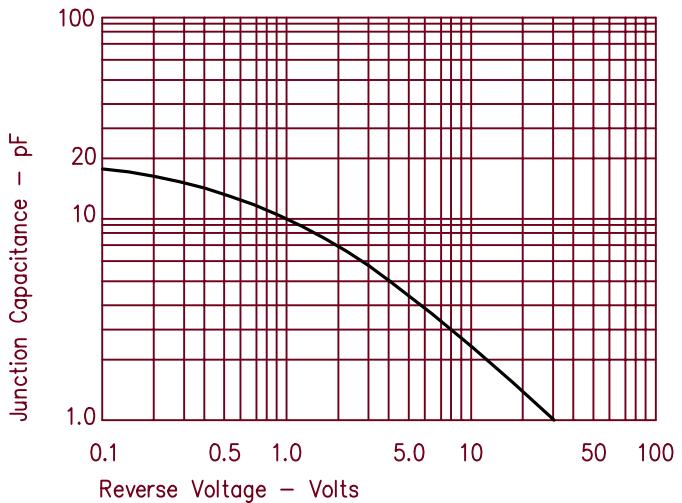


Figure 2
Typical Reverse Characteristics

