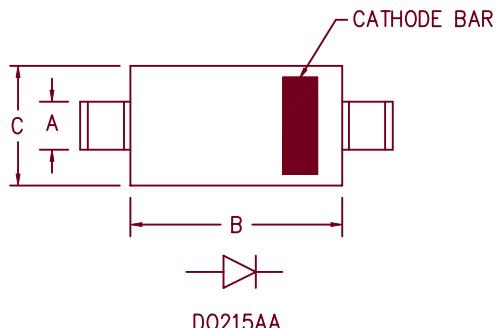
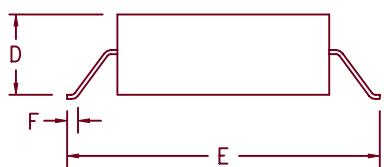


Ultra Fast Recovery Rectifiers

UFS160G – UFS180G



	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	.235	.255	5.97	6.48	
F	.015	.030	.381	.762	



Microsemi Catalog Number	Working Peak Reverse Voltage
UFS160G	600V
UFS170G	700V
UFS180G	800V

Repetitive Peak Reverse Voltage

600V
700V
800V

- Ultra Fast Recovery
- 175°C Junction Temperature
- V_{RRM} 600 to 800 Volts
- 1 Amp Current Rating
- t_{RR} 60nS Max.

Electrical Characteristics

Average forward current	I _{F(AV)} 1.0 Amps
Maximum surge current	I _{FSM} 25 Amps
Max peak forward voltage	V _{FM} .89 Volts
Max peak forward voltage	V _{FM} 1.2 Volts
Max reverse recovery time	t _{RR} 60 nS
Max peak reverse current	I _{RM} 20 μ A
Typical junction capacitance	C _J 5.5 pF

T _L = 135°C, Square wave, R _{θJL} = 25°C/W
8.3ms, half sine, T _J = 175°C
I _{FM} = 0.1A: T _J = 25°C*
I _{FM} = 1.0A: T _J = 25°C*
1/2A, 1A, 1/4A, T _J = 25°C
V _{RRM} , T _J = 25°C
V _R = 10V, T _J = 25°C

*Pulse test: Pulse width 300 μ sec, 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

UFS160G — UFS180G

Figure 1
Typical Forward Characteristics

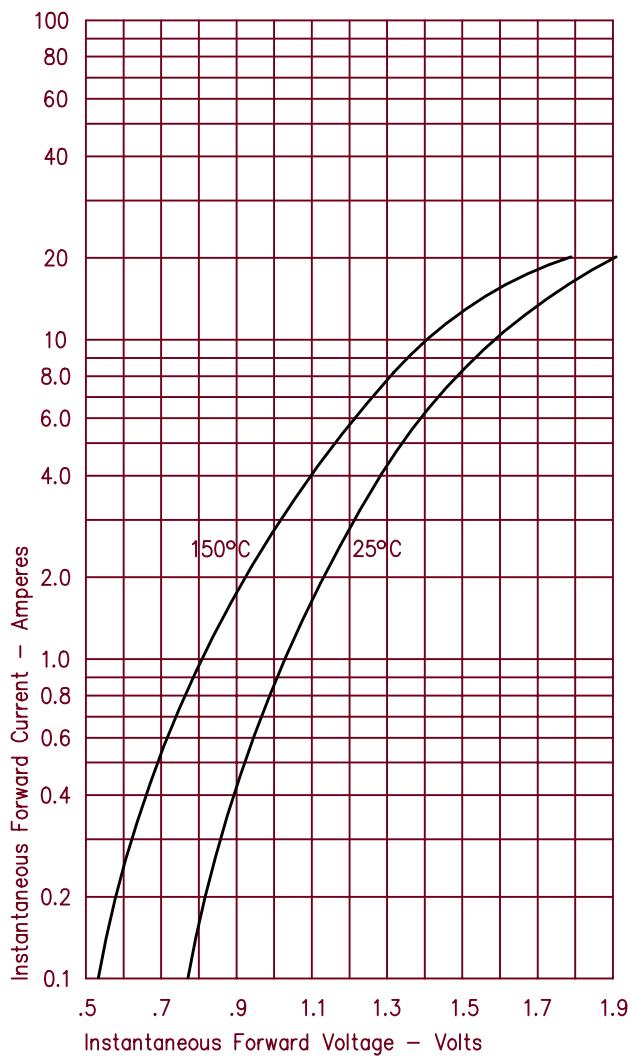


Figure 2
Typical Reverse Characteristics

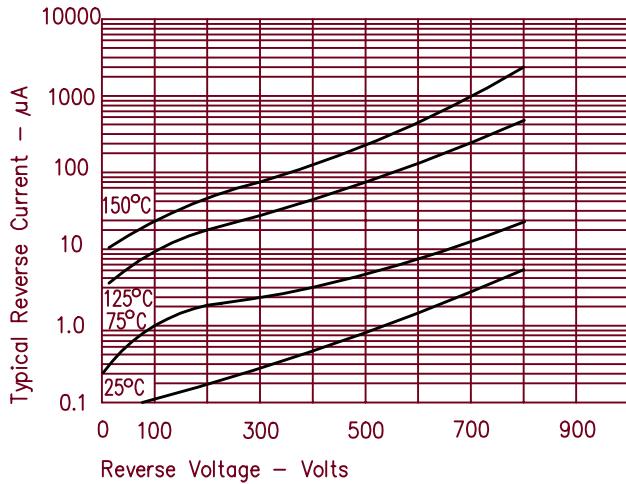


Figure 3
Typical Junction Capacitance

