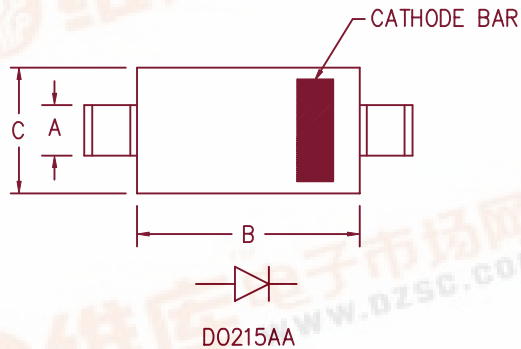


Ultra Fast Recovery Rectifiers

UFS160G — UFS180G



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
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

UFS160G
UFS170G
UFS180G

Working Peak Reverse Voltage

600V
700V
800V

Repetitive Peak Reverse Voltage

600V
700V
800V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 600 to 800 Volts
- 1 Amp Current Rating
- ^tRR 60nS 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_{F(AV)} 1.0 Amps
I_{FSM} 25 Amps
V_{FM} .89 Volts
V_{FM} 1.2 Volts
^tRR 60 nS
I_{RM} 20 μ A
C_J 5.5 pF

T_L = 135°C, Square wave, R _{θ JL} = 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
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
T_J
R _{θ JL}

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

UFS160G — UFS180G

Figure 1
Typical Forward Characteristics

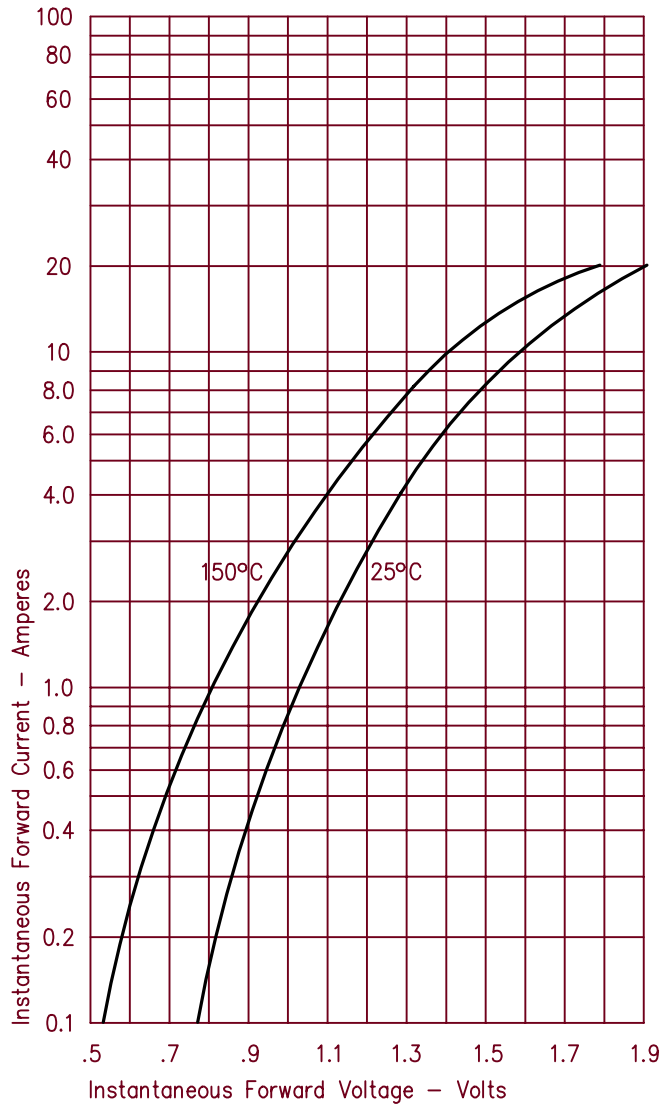


Figure 3
Typical Junction Capacitance

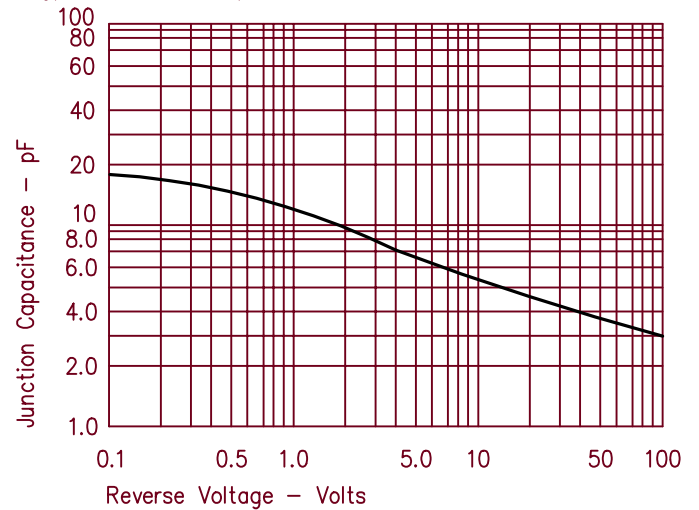


Figure 2
Typical Reverse Characteristics

