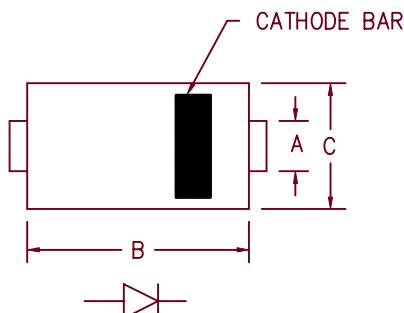
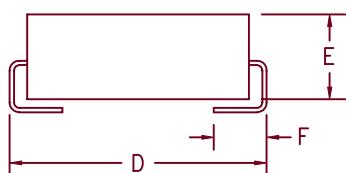


Ultra Fast Recovery Rectifiers

UFS160J – UFS180J



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.073	.087	1.85	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.205	.220	5.21	5.59	
E	.075	.130	1.91	3.30	
F	.030	.060	.760	1.52	



DO-214BA Package

Microsemi
Catalog Number

Working
Peak Reverse
Voltage

UFS160J 600V
UFS170J 700V
UFS180J 800V

Repetitive
Peak Reverse
Voltage

600V
700V
800V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 600 to 800 Volts
- 1 Amp Current Rating
- t_{RR} 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

| F(AV) 1.0 Amps
| FSM 25 Amps
V FM .89 Volts
V FM 1.2 Volts
 t_{RR} 60 nS
I RM 20 μ A
C_J 5.5 pF

T_L = 140°C, Square wave, R_{θJL} = 15°C/W
8.3ms, half sine, T_J = 175°C
| FM = 0.1A: T_J = 25°C*
| 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_{θJL}

-55°C to 175°C
-55°C to 175°C
15°C/W Junction to lead
.0047 ounces (.013 grams) typical

UFS160J - UFS180J

Figure 1
Typical Forward Characteristics

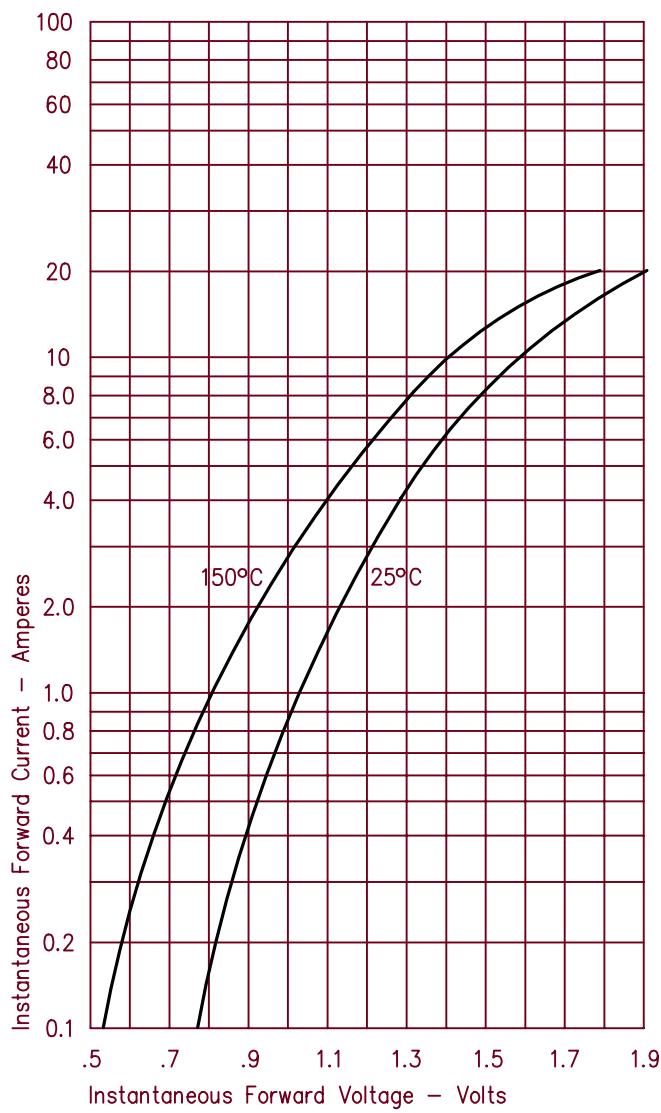


Figure 3
Typical Junction Capacitance

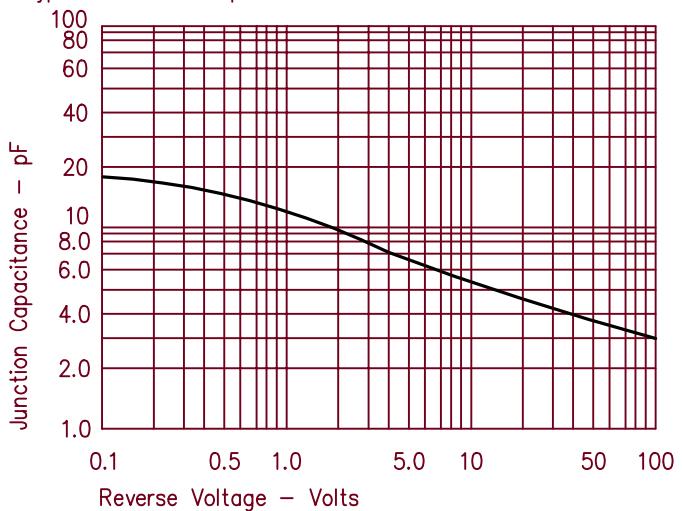


Figure 2
Typical Reverse Characteristics

