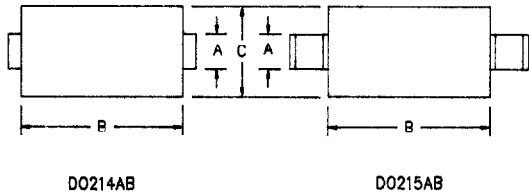
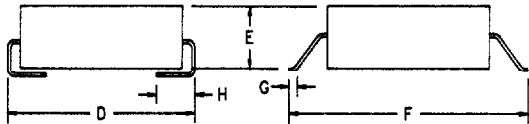


Ultra Fast Recovery Rectifiers

UFS360, UFS370, UFS380



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.21	2.97	
B	.260	.280	4.57	6.60	
C	.220	.245	3.94	5.58	
D	.307	.322	5.59	7.80	
E	.075	.095	1.90	2.41	
F	.380	.400	6.86	7.37	
G	.025	.040	.381	.762	
H	.030	.060	.760	1.52	



Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
•UFS360	600V	600V
•UFS370	700V	700V
•UFS380	800V	800V

*Add Suffix J For J Lead or G For Gull Wing Lead Configuration

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 600 to 800 Volts
- 3 Amp Current Rating
- ^tRR 60ns Max.

Electrical Characteristics		
Average forward current	I _{F(AV)} 3.0 Amps	Square wave
Maximum surge current	I _{FSM} 100 Amps	8.3ms, half sine, T _J = 175°C
Max peak forward voltage	V _{FM} 1.2 Volts	I _{FM} = 3.0A; T _J = 25°C*
Max reverse recovery time	t _{RR} 60 ns	1/2A, 1A, 1/4A, T _J = 25°C
Typical reverse recovery time	t _{RR} 40 ns	1/2A, 1A, 1/4A, T _J = 25°C
Max peak reverse current	I _{RM} 10 mA	V _{RRM} , T _J = 150°C
Max peak reverse current	I _{RM} 10 μA	V _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 19 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}	-40°C to 175°C
Operating junction temp range	T _J	-40°C to 175°C
Weight		.008 ounces (0.22 grams) typical

Microsemi Corp.
Colorado

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UFS360, UFS370, UFS380

Figure 1
Typical Forward Characteristics

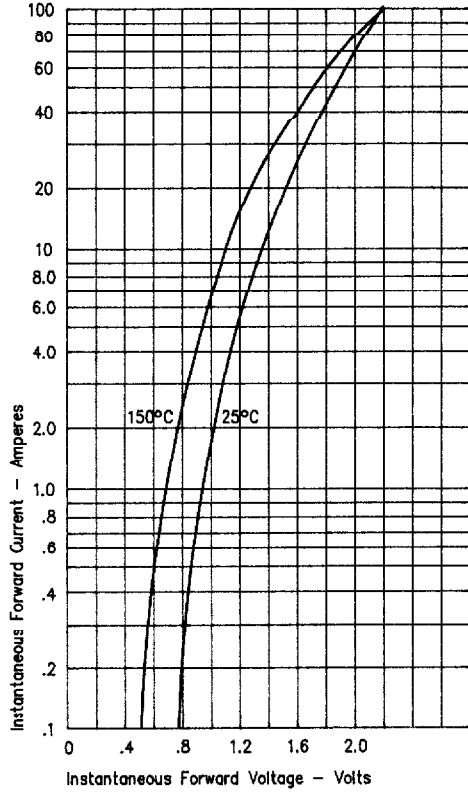


Figure 3
Typical Junction Capacitance

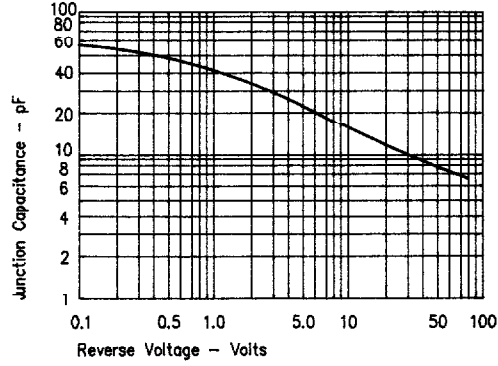


Figure 2
Typical Reverse Characteristics

