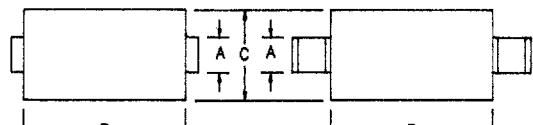


Ultra Fast Recovery Rectifiers

UFS530, UFS540, UFS550

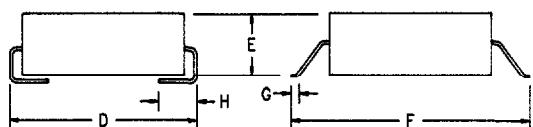


DO214AB

DO215AB

	Dim. Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
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	

D



Microsemi
Catalog Number

Working
Peak Reverse
Voltage

Repetitive
Peak Reverse
Voltage

*UFS530	300V	300V
*UFS540	400V	400V
*UFS550	500V	500V

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

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 300 to 500 Volts
- 5 Amp current rating
- t_{RR} 50nS Max.

Electrical Characteristics

Average forward current	I _{F(AV)} 5.0 Amps	Square wave
Maximum surge current	I _{FSM} 175 Amps	8.3ms, half sine, TJ = 175°C
Max peak forward voltage	V _{FM} 1.2 Volts	I _{FM} = 5.0A; TJ = 25°C*
Max reverse recovery time	t _{RR} 50 nS	1/2A, 1A, 1/4A, TJ = 25°C
Typical reverse recovery time	t _{RR} 28 ns	1/2A, 1A, 1/4A, TJ = 25°C
Max peak reverse current	I _{RM} 10 μ A	V _{RRM} , TJ = 25°C
Typical junction capacitance	C _J 28 pF	V _R = 10V, TJ = 25°C

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	T _{STC}	-40°C to 175°C
Operating junction temp range	T _J	-40°C to 175°C

Weight	.008 ounces (.22 grams) typical
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PH: 303-469-2161
FAX: 303-466-3775

Microsemi Corp.
Colorado

UFS530, UFS540, UFS550

Figure 1
Typical Forward Characteristics

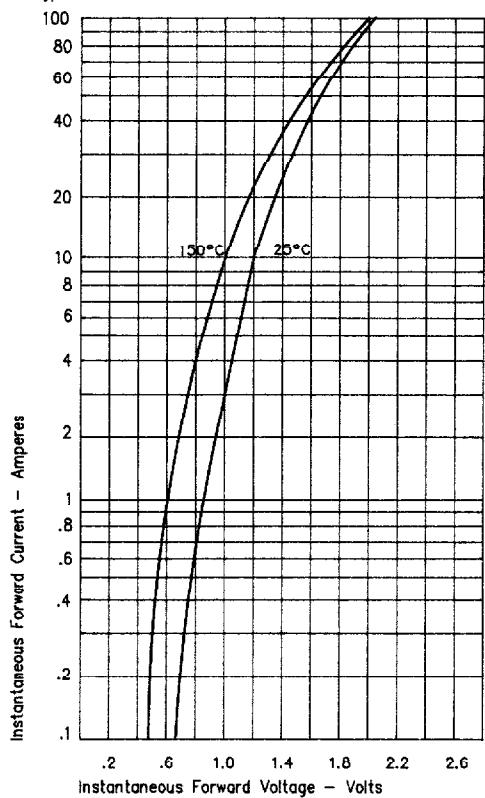


Figure 3
Typical Junction Capacitance

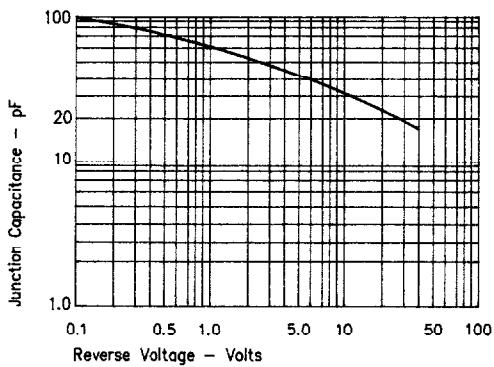


Figure 2
Typical Reverse Characteristics

