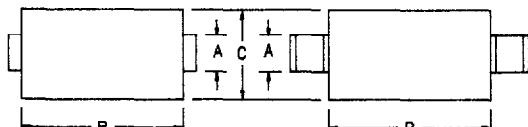


Ultra Fast Recovery Rectifiers

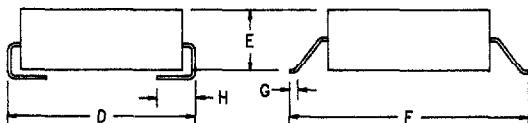
UFS560, UFS570, UFS580



D0214AB

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	

D0215AB



D

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
*UFS560	600V	600V
*UFS570	700V	700V
*UFS580	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
- 5 Amp current rating
- t_{RR} 60nS 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} 60 ns	1/2A, 1A, 1/4A, TJ = 25°C
Typical reverse recovery time	t _{RR} 40 ns	1/2A, 1A, 1/4A, TJ = 25°C
Max peak reverse current	I _{RM} 10 mA	V _{RRM, TJ} = 150°C
Max peak reverse current	I _{RM} 10 μA	V _{RRM, TJ} = 25°C
Typical junction capacitance	C _J 32 pF	V _R = 10V, TJ = 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 (.22 grams) typical

UFS560, UFS570, UFS580

Figure 1
Typical Forward Characteristics

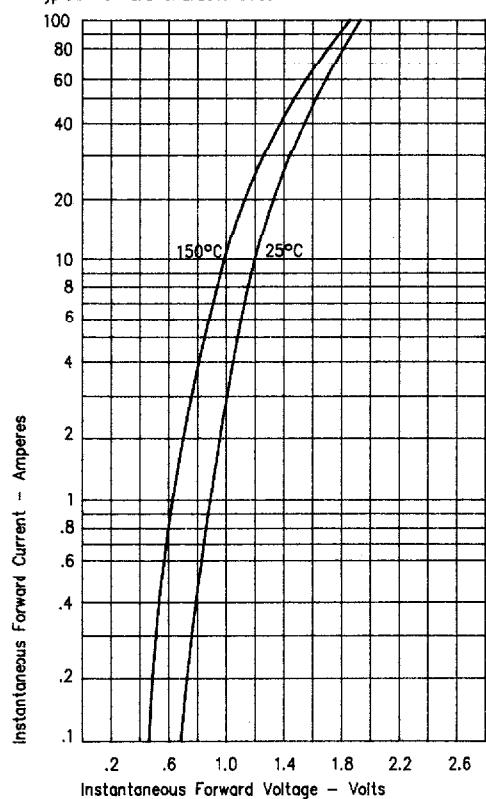


Figure 3
Typical Junction Capacitance

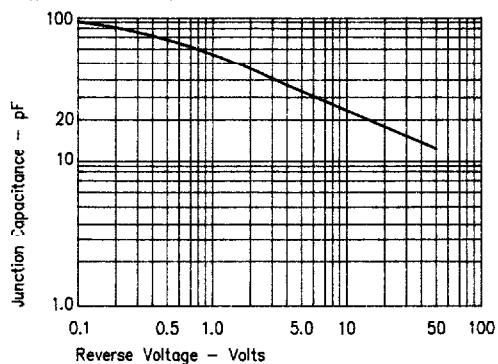


Figure 2
Typical Reverse Characteristics

