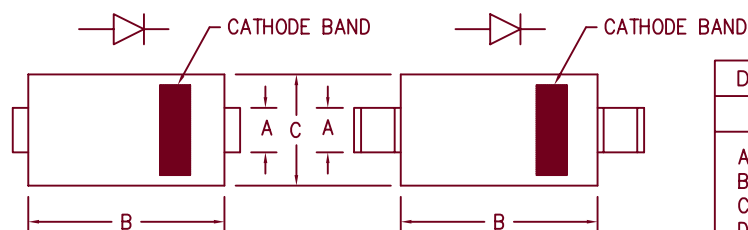


Ultra Fast Recovery Rectifiers

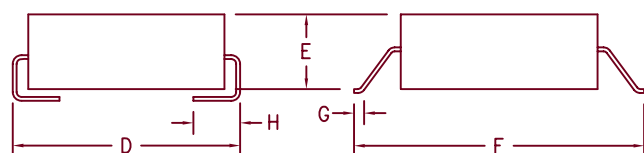
UFS530 — UFS550



D0214AB

D0215AB

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.97	3.12	
B	.260	.280	6.60	7.11	
C	.220	.245	5.59	6.22	
D	.307	.322	7.80	8.18	
E	.075	.095	1.91	2.41	
F	.380	.400	9.65	10.16	
G	.025	.040	.640	1.02	
H	.030	.060	.760	1.52	



Microsemi
Catalog Number

*UFS530
*UFS540
*UFS550

Working
Peak Reverse
Voltage

300V
400V
500V

Repetitive
Peak Reverse
Voltage

300V
400V
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
Maximum surge current
Max peak forward voltage
Max reverse recovery time
Max peak reverse current
Typical junction capacitance

$I_F(AV)$ 5.0 Amps
 I_{FSM} 175 Amps
 V_{FM} 1.2 Volts
 t_{RR} 50 nS
 I_{RM} 10 μA
 C_J 28 pF

Square wave
8.3ms, half sine, $T_J = 175^\circ C$
 $I_{FM} = 5.0A: T_J = 25^\circ C^*$
1/2A, 1A, 1/4A, $T_J = 25^\circ C$
 $V_{RRM}, T_J = 25^\circ C$
 $V_R = 10V, T_J = 25^\circ C$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
 T_J
 $R_{\theta JL}$

$-55^\circ C$ to $175^\circ C$
 $-55^\circ C$ to $175^\circ C$
22°C/W Junction to lead
.008 ounces (.22 grams) typical



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05-08-07 Rev. 2

UFS530 — UFS550

Figure 1
Typical Forward Characteristics

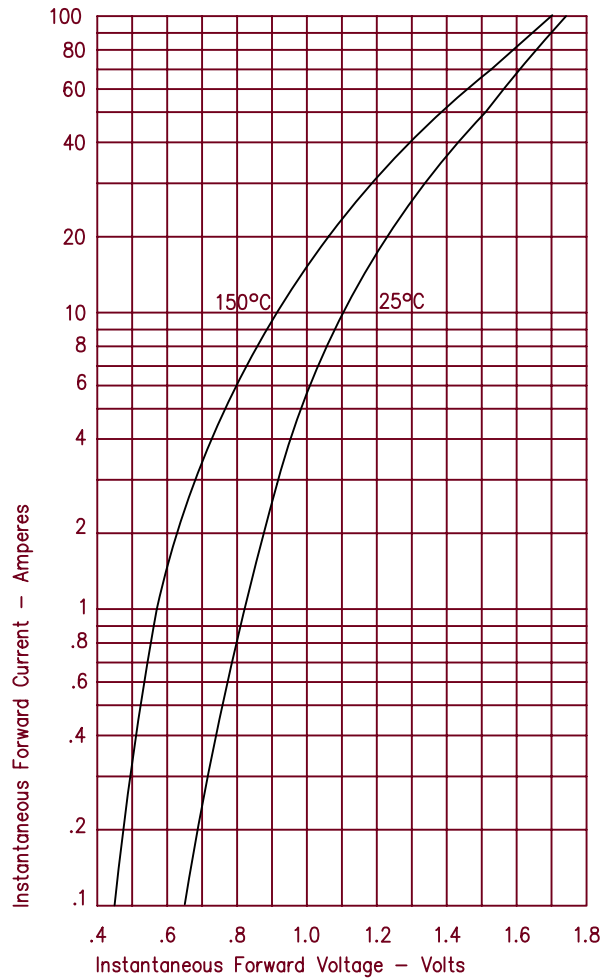


Figure 3
Typical Junction Capacitance

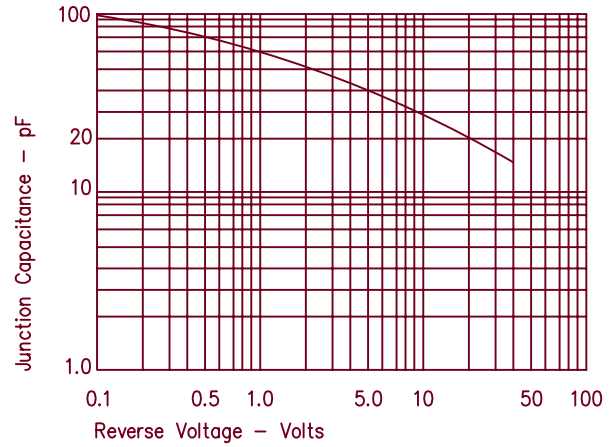


Figure 2
Typical Reverse Characteristics

