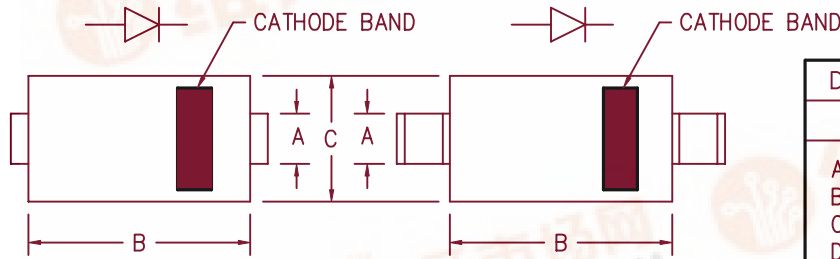


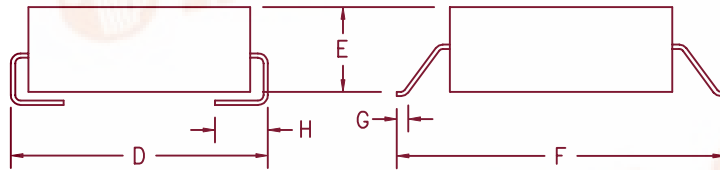
Ultra Fast Recovery Rectifiers

UFS305 — UFS320



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

*UFS305
*UFS310
*UFS315
*UFS320

Working Peak
Reverse Voltage

50V
100V
150V
200V

Repetitive Peak
Reverse Voltage

50V
100V
150V
200V

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

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 50 to 200 Volts
- 3 Amp Current Rating
- t_{RR} 30 ns Max.

Electrical Characteristics

Average forward current
Maximum surge current
Max peak forward voltage
Max reverse recovery time
Max peak reverse current
Typical junction capacitance

$I_F(AV)$ 3.0 Amps
 I_{FSM} 100 Amps
 V_{FM} .95 Volts
 t_{RR} 30 ns
 I_{RM} 10 μA
 C_J 38 pF

Square wave
8.3ms, half sine, $T_J = 175^\circ C$
 $I_{FM} = 3.0A; T_J = 25^\circ C^*$
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°C to 175°C
-55°C to 175°C
25°C/W Junction to lead
.008 ounces (0.22 grams) typical

UFS305 — UFS320

Figure 1
Typical Forward Characteristics

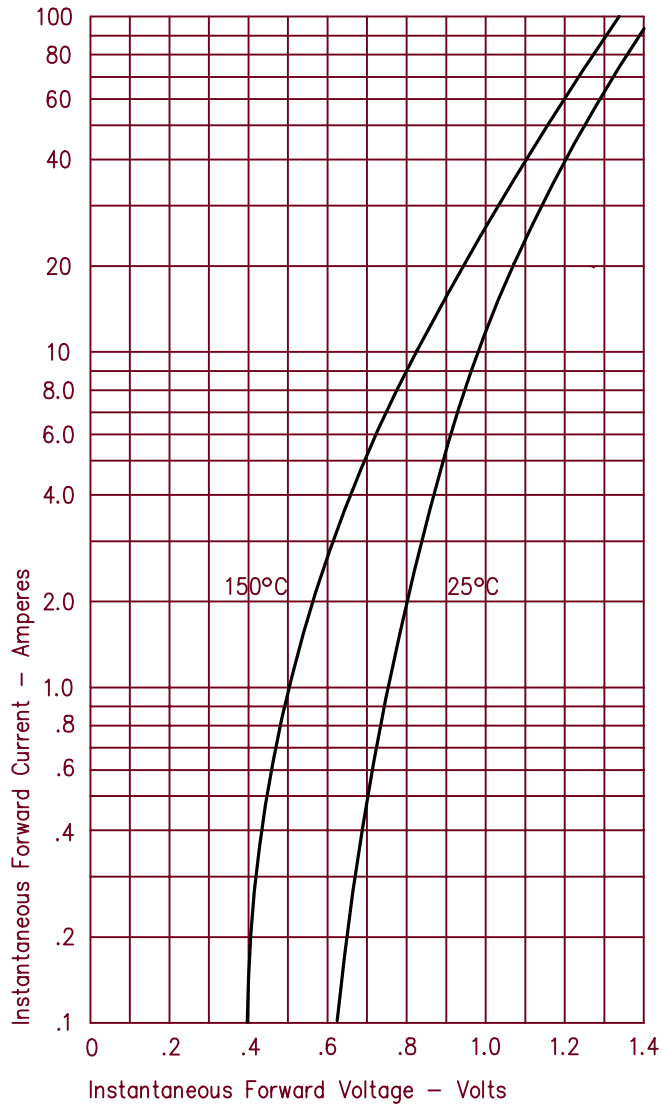


Figure 3
Typical Junction Capacitance

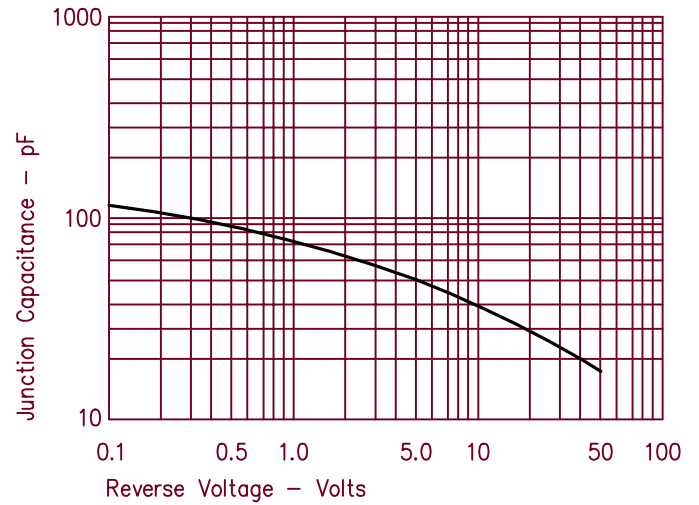


Figure 2
Typical Reverse Characteristics

