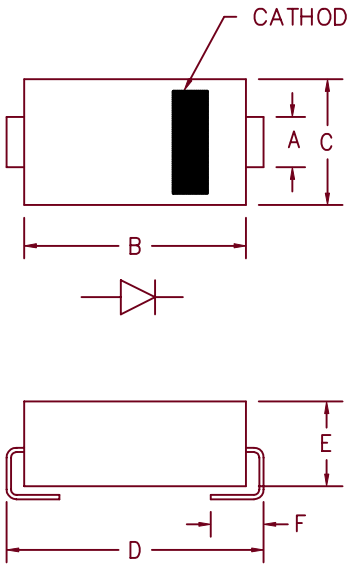
Ultra Fast Recovery Rectifiers

UFS110J – UFS120J



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.073	.087	1.85	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.205	.220	5.21	5.59	
E	.075	.130	1.91	3.30	
F	.030	.060	.760	1.52	

DO–214BA Package

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UFS110J	100V	100V
UFS115J	150V	150V
UFS120J	200V	200V

- Ultra Fast Recovery
- 175°C Junction Temperature
- V_{RRM} 100 to 200 Volts
- 1 Amp Current Rating
- t_{RR} 30ns Max.

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 1.0 Amps	T_L = 145°C, Square wave, $R_{\theta JL}$ = 15°C/W
Maximum surge current	I_{FSM} 35 Amps	8.3ms, half sine, T_J = 175°C
Max peak forward voltage	V_{FM} .75 Volts	I_{FM} = 0.1A; T_J = 25°C*
Max peak forward voltage	V_{FM} .95 Volts	I_{FM} = 1.0A; T_J = 25°C*
Max reverse recovery time	t_{RR} 30 ns	1/2A, 1A, 1/4A, T_J = 25°C
Max peak reverse current	I_{RM} 5 μA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 10 pF	V_R = 10V, T_J = 25°C

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

Thermal and Thermal Characteristics

Storage temperature range	T_{STG}	–55°C to 175°C
Operating junction temp range	T_J	–55°C to 175°C
Maximum thermal resistance	$R_{\theta JL}$	15°C/W Junction to lead
Weight		.0047 ounces (.013 grams) typical

6–8–00 Rev. 1

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UFS110J – UFS120J

Figure 1
Typical Forward Characteristics

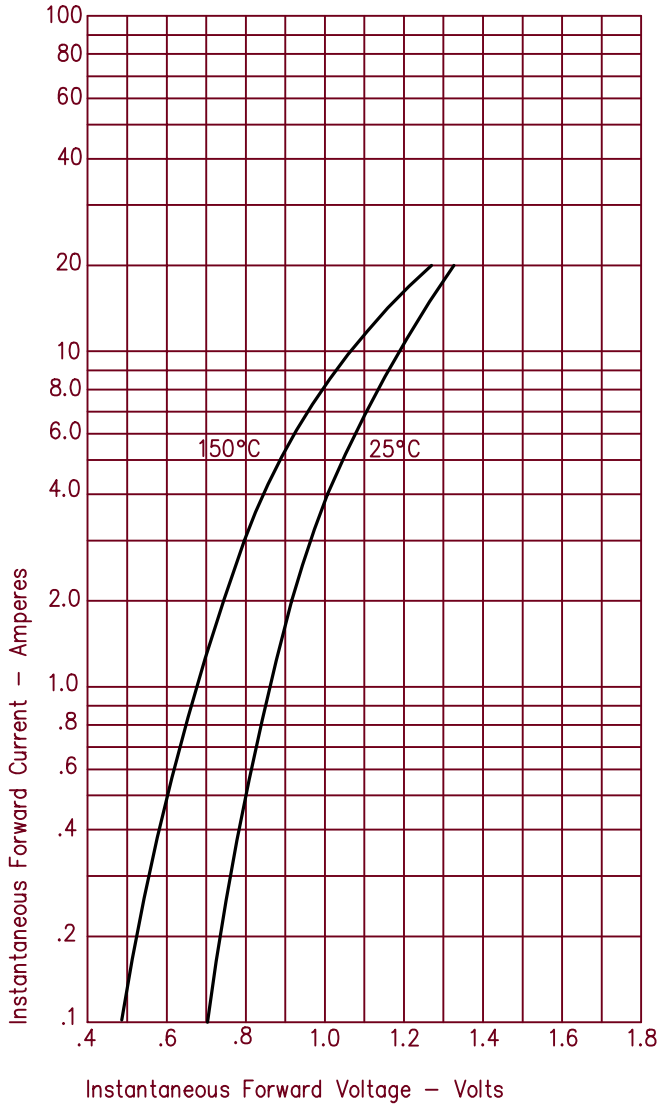


Figure 2
Typical Reverse Characteristics

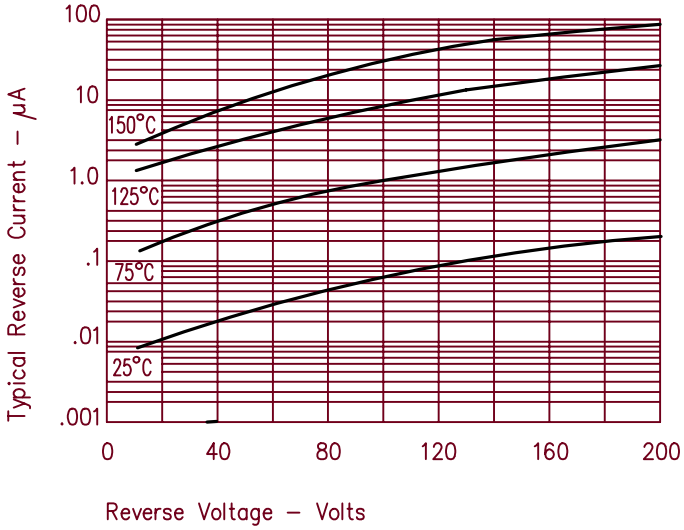


Figure 3
Typical Junction Capacitance

