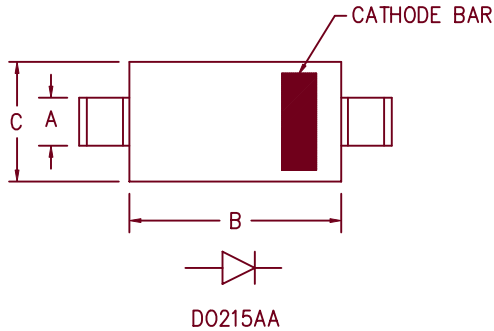
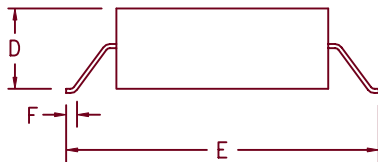


Ultra Fast Recovery Rectifiers

UFS110G — UFS120G



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.075	.095	1.90	2.41	
E	.235	.255	5.97	6.48	
F	.015	.030	.381	.762	



Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UFS110G	100V	100V
UFS115G	150V	150V
UFS120G	200V	200V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 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 = 140°C, Square wave, R _{θJL} = 25°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 Mechanical 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 _{θJL}	25°C/W Junction to lead
Weight		.0047 ounces (.013 grams) typical

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UFS110G — UFS120G

Figure 1
Typical Forward Characteristics

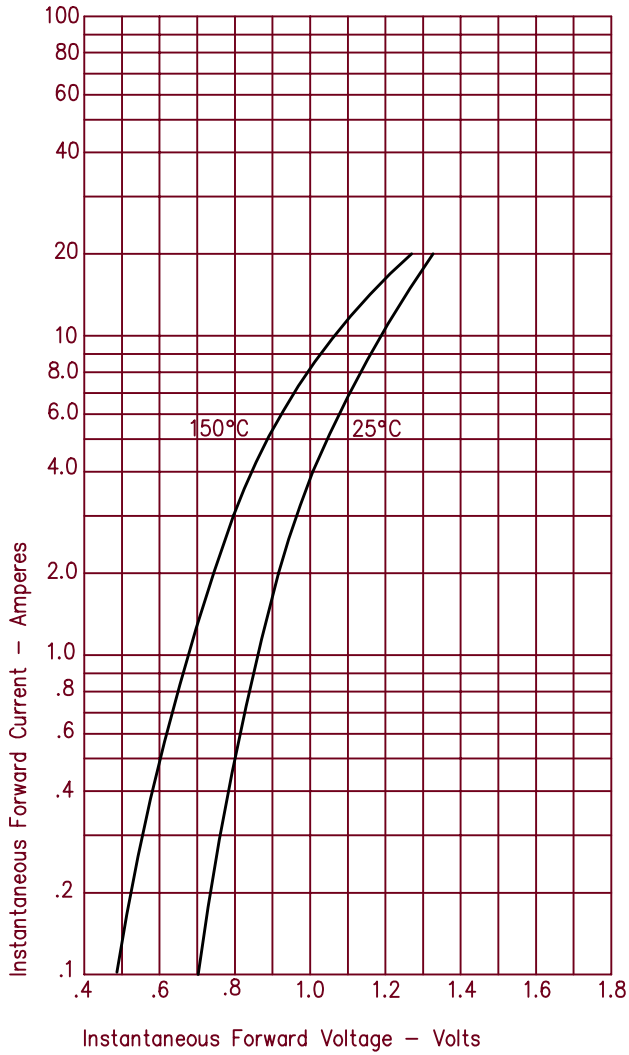


Figure 3
Typical Junction Capacitance

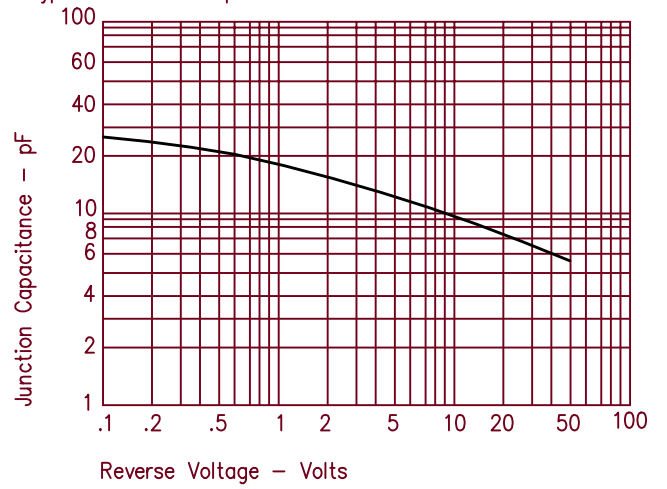


Figure 2
Typical Reverse Characteristics

