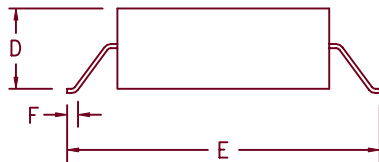
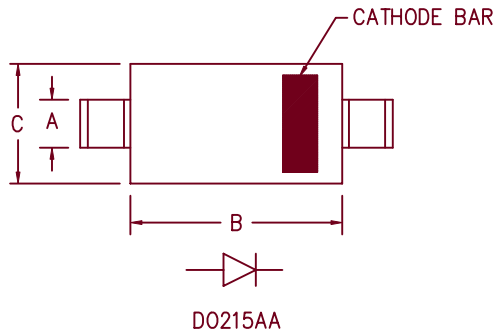


Ultra Fast Recovery Rectifiers

UFS130G — UFS150G



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
UFS130G	300V	300V
UFS140G	400V	400V
UFS150G	500V	500V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 300 to 500 Volts
- 1 Amp Current Rating
- t_{RR} 50nS Max.

Electrical Characteristics

Average forward current	$I_F(AV)$ 1.0 Amps	$T_L = 138^\circ C$, Square wave $R_{\theta JL} = 25^\circ C/W$
Maximum surge current	I_{FSM} 30 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	V_{FM} .80 Volts	$I_{FM} = 0.1A; T_J = 25^\circ C^*$
Max peak forward voltage	V_{FM} 1.1 Volts	$I_{FM} = 1.0A; T_J = 25^\circ C^*$
Max reverse recovery time	t_{RR} 50 nS	1/2A, 1A, 1/4A, $T_J = 25^\circ C$
Max peak reverse current	I_{RM} 10 μA	$V_{RRM}, T_J = 25^\circ C$
Typical junction capacitance	C_J 2.5 pF	$V_R = 10V, T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $175^\circ C$
Maximum thermal resistance	$R_{\theta JL}$	$25^\circ C/W$ Junction to lead
Weight		.0047 ounces (.013 grams) typical

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UFS130G — UFS150G

Figure 1
Typical Forward Characteristics

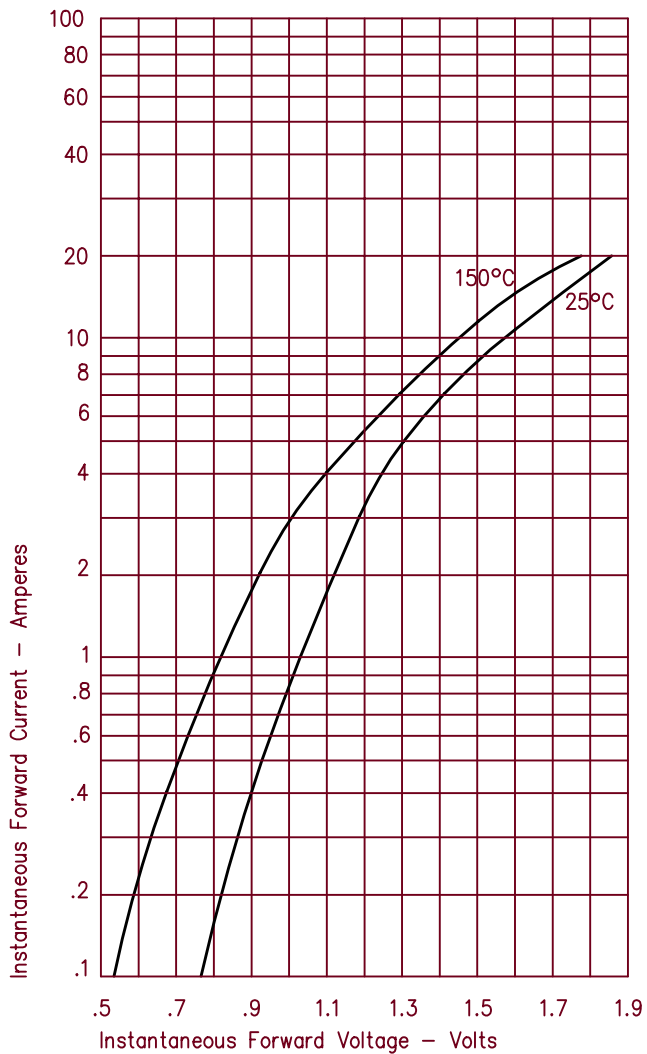


Figure 3
Typical Junction Capacitance

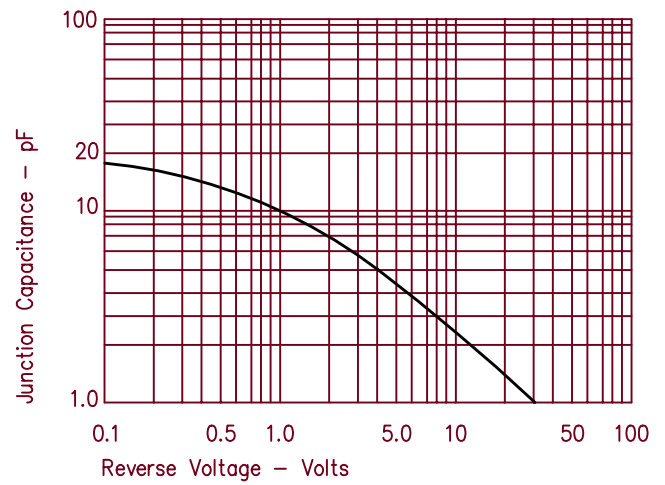


Figure 2
Typical Reverse Characteristics

