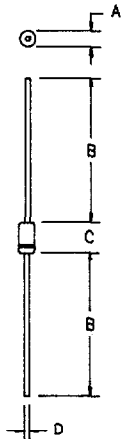


# Ultra Fast Recovery Rectifiers

## UF530, UF540, UF550



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.188	.260	4.78	6.50	Dia.
B	1.00	---	25.4	---	
C	.285	.375	7.24	9.52	
D	.046	.056	1.17	1.42	Dia.



PLASTIC D0201AD

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	
UF530	300V	300V	<ul style="list-style-type: none"> <li>• Ultra Fast Recovery</li> <li>• 175°C Junction Temperature</li> <li>• VRRM 300 to 500 Volts</li> <li>• 5 Amp Current Rating</li> <li>• <math>t_{RR}</math> 50 ns Max.</li> </ul>
UF540	400V	400V	
UF550	500V	500V	

Electrical Characteristics		
Average forward current	IF(AV) 5.0 Amps	TA = 110°C, Square wave, RθJL = 11°C/W, L = 1/8"
Average forward current	IF(AV) 5.0 Amps	TA = 90°C, Square wave, RθJL = 14.7°C/W, L = 3/8"
Maximum surge current	IFSM 175 Amps	8.3ms, half sine, TJ = 175°C
Max peak forward voltage	VFM 1.2 Volts	IFM = 5.0A; TJ = 25°C*
Max reverse recovery time	tRR 50 ns	1/2A, 1A, 1/4A, TJ = 25°C
Typical reverse recovery time	tRR 28 ns	1/2A, 1A, 1/4A, TJ = 25°C
Max peak reverse current	IRM 10 μA	VRRM, TJ = 25°C
Typical junction capacitance	CJ 28pF	VR = 10V, TJ = 25°C

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

Thermal and Mechanical Characteristics		
Storage temperature range	TSTG	-40°C to 175°C
Operating junction temp range	TJ	-40°C to 175°C
Maximum thermal resistance	L = 1/8" RθJL	11°C/W Junction to Lead
	L = 3/8" RθJL	14.7°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical

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**Colorado**

# UF530, UF540, UF550

Figure 1  
Typical Forward Characteristics

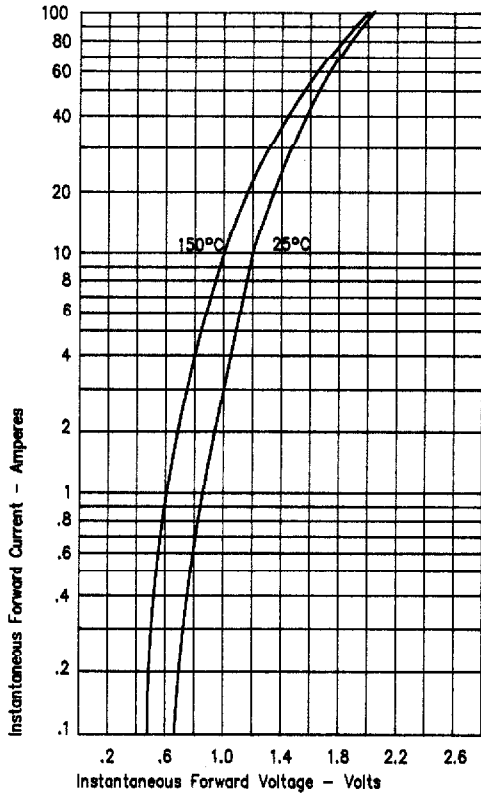


Figure 3  
Typical Junction Capacitance

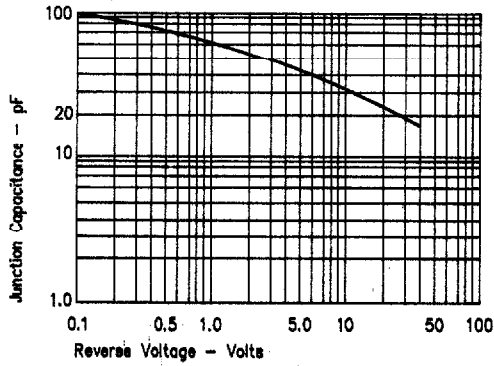


Figure 2  
Typical Reverse Characteristics

