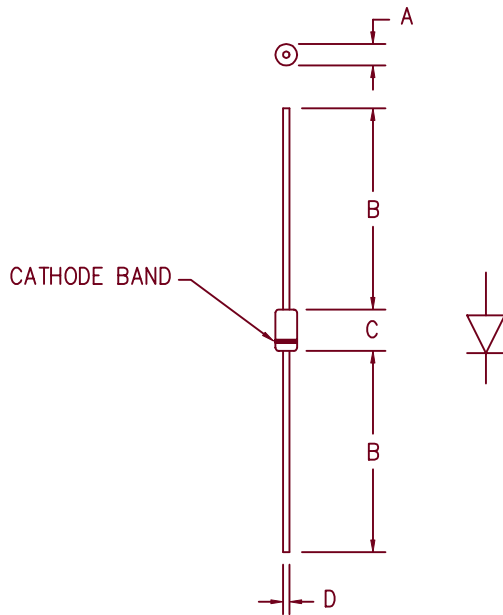


# Ultra Fast Recovery Rectifiers UF560 — UF580



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
UF560	600V	600V
UF570	700V	700V
UF580	800V	800V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 600 to 800 Volts
- 5 Amp Current Rating
- $t_{RR}$  60 ns Max.

Electrical Characteristics		
Average forward current	I <sub>F(AV)</sub> 5.0 Amps	T <sub>A</sub> = 109°C, Square wave, R <sub>θJL</sub> = 11°C/W, L = 1/8"
Average forward current	I <sub>F(AV)</sub> 5.0 Amps	T <sub>A</sub> = 87°C, Square wave, R <sub>θJL</sub> = 14.7°C/W, L = 3/8"
Maximum surge current	I <sub>FSM</sub> 175 Amps	8.3ms, half sine, T <sub>J</sub> = 175°C
Max peak forward voltage	V <sub>FM</sub> 1.35 Volts	I <sub>FM</sub> = 5.0A: T <sub>J</sub> = 25°C*
Max reverse recovery time	t <sub>RR</sub> 60 ns	1/2A, 1A, 1/4A, T <sub>J</sub> = 25°C
Max peak reverse current	I <sub>RM</sub> 10 μA	V <sub>R</sub> = 10V, T <sub>J</sub> = 25°C
Typical junction capacitance	C <sub>J</sub> 32pF	

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

Thermal and Mechanical Characteristics		
Storage temperature range	T <sub>STG</sub>	-55°C to 175°C
Operating junction temp range	T <sub>J</sub>	-55°C to 175°C
Maximum thermal resistance	L = 1/8" R <sub>θJL</sub>	11°C/W Junction to Lead
	L = 3/8" R <sub>θJL</sub>	14.7°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical

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# UF560 — UF580

Figure 1  
Typical Forward Characteristics

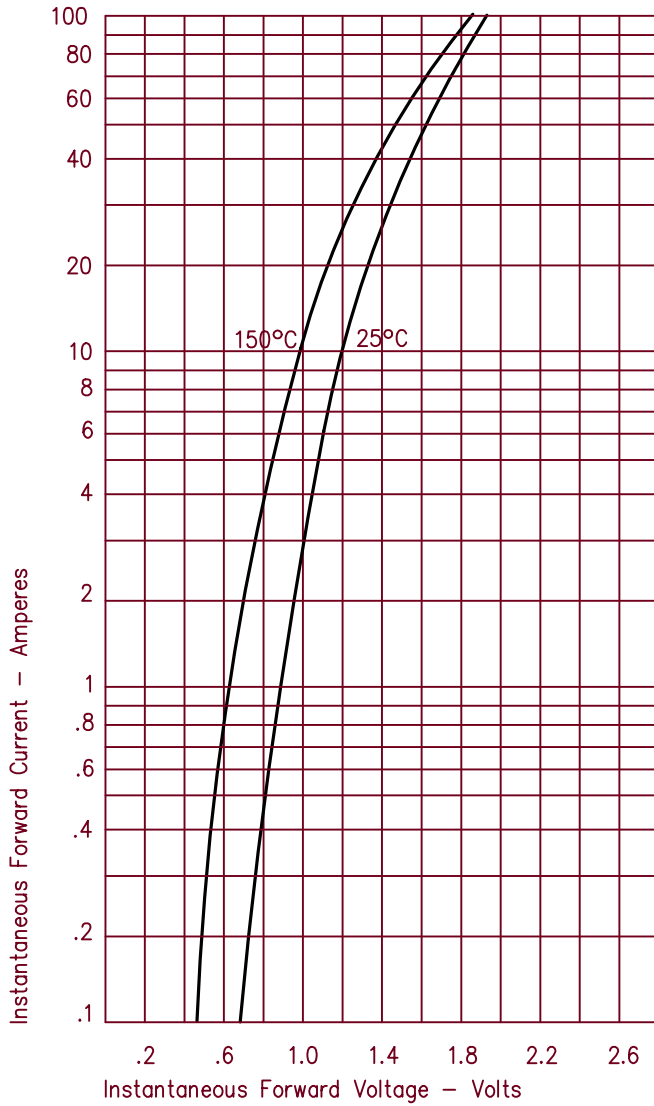


Figure 3  
Typical Junction Capacitance

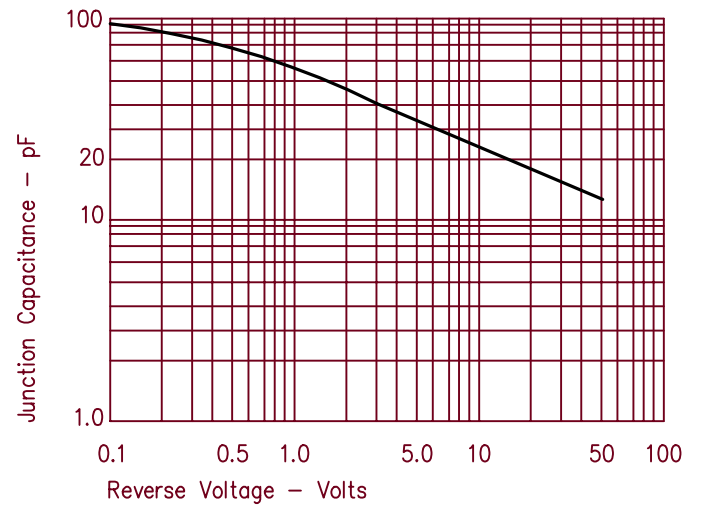


Figure 2  
Typical Reverse Characteristics

