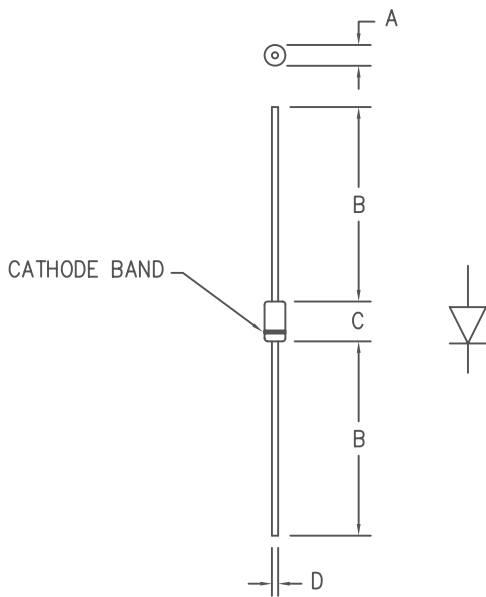


Ultra Fast Recovery Rectifiers

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

UF560
UF570
UF580

Working Peak
Reverse Voltage

600V
700V
800V

Repetitive Peak
Reverse Voltage

600V
700V
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
Maximum surge current
Max peak forward voltage
Max reverse recovery time
Max peak reverse current
Typical junction capacitance

$I_F(AV)$ 5.0 Amps
 I_{FSM} 175 Amps
 V_{FM} 1.35 Volts
 t_{RR} 60 ns
 I_{RM} 10 μA
 C_J 32pF

$T_L = 90^\circ C$, Square wave, $R_{\theta JL} = 12^\circ C/W$, $L = 3/8"$
8.3ms, half sine, $T_J = 175^\circ C$
 $I_{FM} = 5.0A$; $T_J = 25^\circ C^*$
1/2A, 1A, 1/4A, $T_J = 25^\circ C$
 V_{RRM} , $T_J = 25^\circ C$
 $V_R = 10V$, $T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
 T_J
 $L = 3/8"$ $R_{\theta JL}$

$-55^\circ C$ to $175^\circ C$
 $-55^\circ C$ to $175^\circ C$
12°C/W Junction to Lead
.011 ounces (0.34 grams) typical



8700 East Thomas Road, P.O. Box 1390
Scottsdale, AZ 85252
PH: (480) 941-6300
FAX: (480) 947-1503
www.microsemi.com

05-07-07 Rev.4

UF560 — UF580

Figure 1
Typical Forward Characteristics

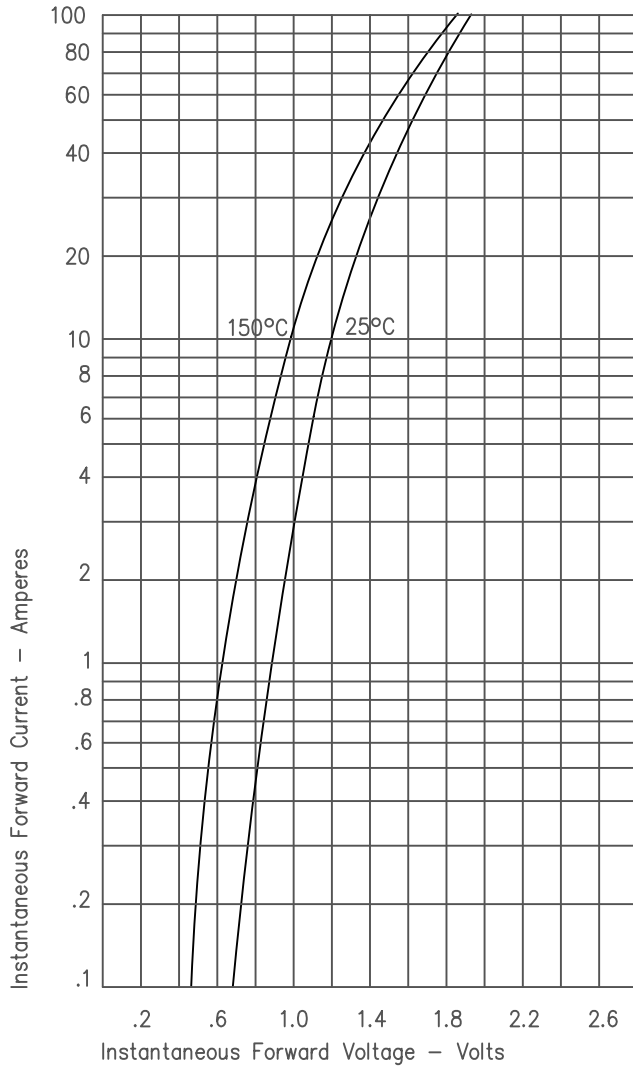


Figure 3
Typical Junction Capacitance

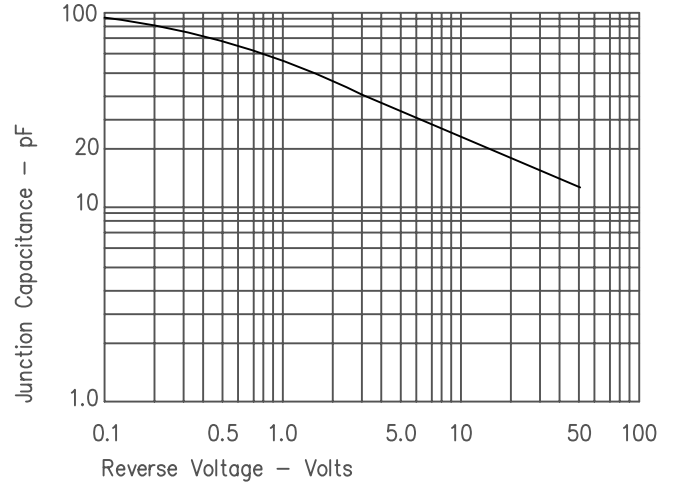


Figure 2
Typical Reverse Characteristics

