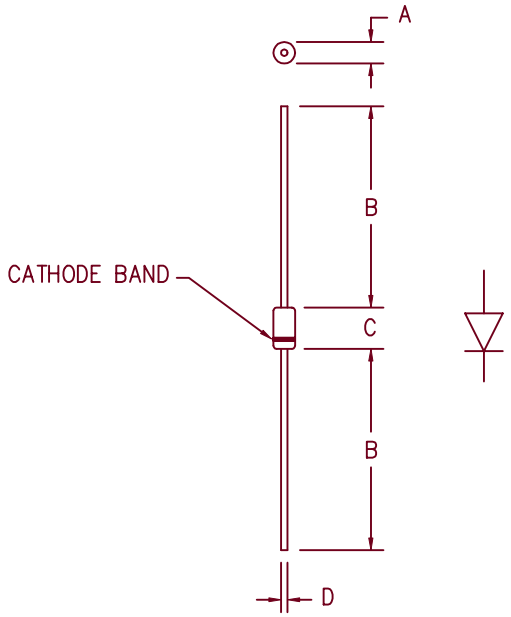
Ultra Fast Recovery Rectifiers

UF110 – UF120



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.081	.107	2.057	2.718	Dia.
B	1.10	---	27.94	---	
C	.160	.205	4.064	5.207	
D	.028	.034	.711	.864	Dia.

PLASTIC DO41

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UF110	100V	100V
UF115	150V	150V
UF120	200V	200V

- Ultra Fast Recovery
- 175°C Junction Temperature
- V_{RRM} 100 to 200 Volts
- 1 Amp Current Rating
- t_{RR} 30ns Max.

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 1.0 Amps	T_A = 135°C, Square wave, $R_{\theta JL}$ = 15°C/W, L = 1/4"
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	L = 1/4" $R_{\theta JL}$	15°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical

6-1-00 Rev. 1

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UF110 – UF120

Figure 1
Typical Forward Characteristics

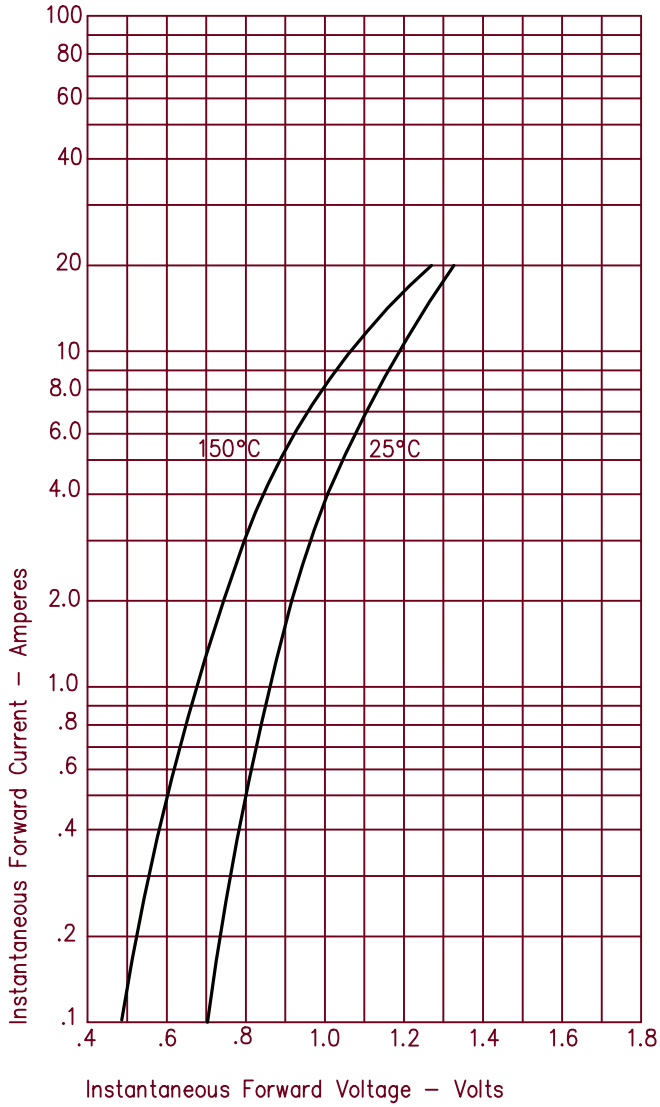


Figure 2
Typical Reverse Characteristics

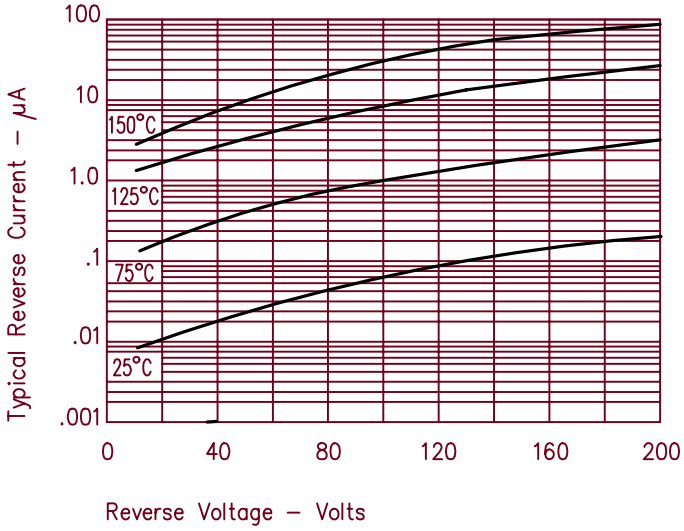


Figure 3
Typical Junction Capacitance

