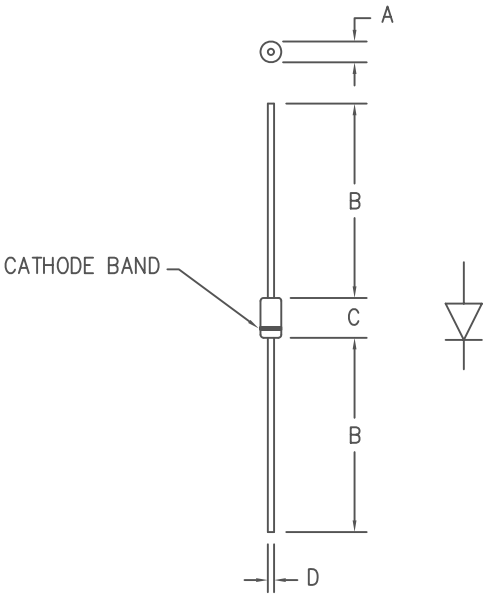
Ultra Fast Recovery Rectifiers
UF110 – UF120



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	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
	UF4001, UF4001GP VHE205	50V	50V
UF110	MUR110 UF4002, UF4002GP VHE210	100V	100V
UF115	MUR115 VHE215	150V	150V
UF120	MUR120 UF4003, UF4003GP VHE220	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_L = 135°C, Square wave, $R_{\theta JL}$ = 25°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" $R_{\theta JL}$	25°C/W Junction to Lead
Weight		.011 ounces (0.34 grams) typical

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Figure 1
Typical Forward Characteristics

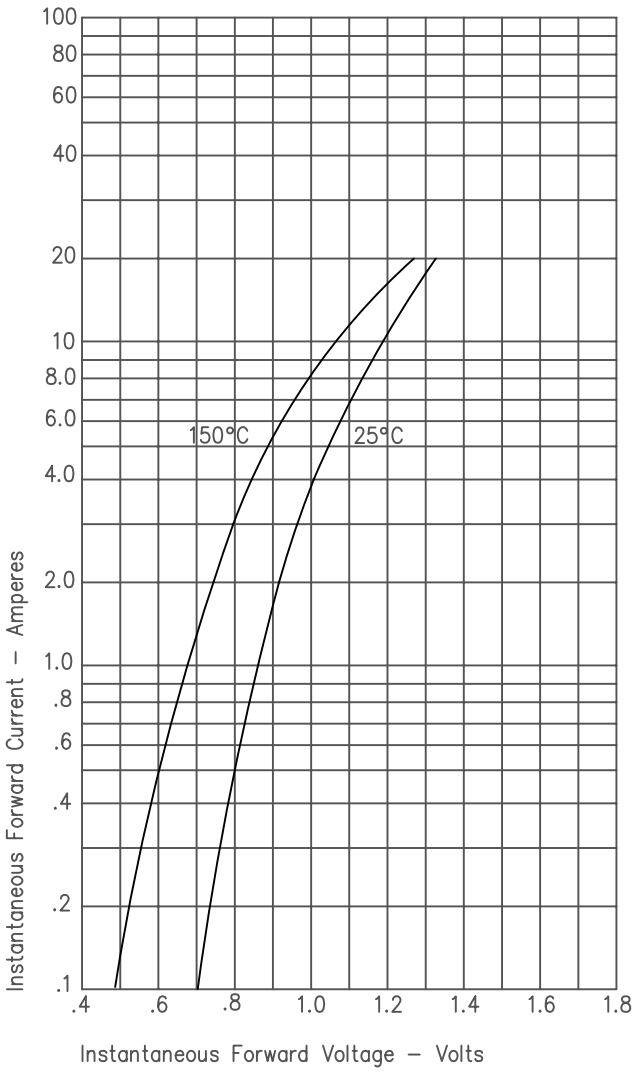

Figure 2
Typical Reverse Characteristics

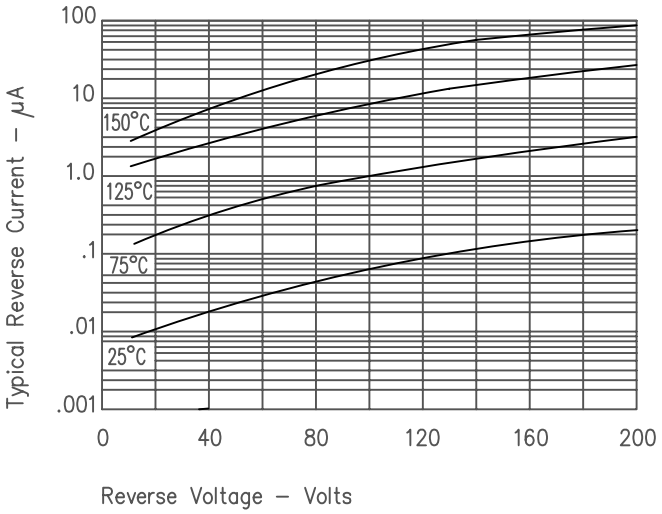

Figure 3
Typical Junction Capacitance