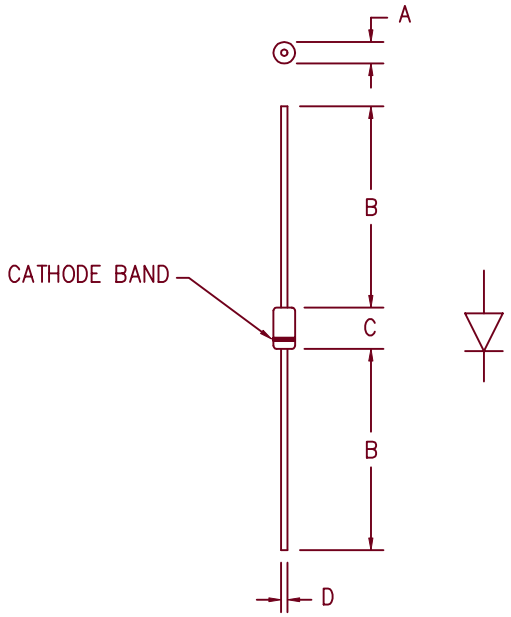
Ultra Fast Recovery Rectifiers

UF130 – UF150



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
UF130	300V	300V
UF140	400V	400V
UF150	500V	500V

- Ultra Fast Recovery
- 175°C Junction Temperature
- V_{RRM} 300 to 500 Volts
- 1 Amp Current Rating
- t_{RR} 50nS Max.

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 1.0 Amps	T_A = 120°C, Square wave, $R_{\theta JL}$ = 15°C/W, L = 1/4"
Maximum surge current	I_{FSM} 30 Amps	8.3ms, half sine, T_J = 175°C
Max peak forward voltage	V_{FM} .80 Volts	I_{FM} = 0.1A; T_J = 25°C*
Max peak forward voltage	V_{FM} 1.1 Volts	I_{FM} = 1.0A; T_J = 25°C*
Max reverse recovery time	t_{RR} 50 nS	1/2A, 1A, 1/4A, T_J = 25°C
Max peak reverse current	I_{RM} 10 μA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 2.5 pF	V_R = 10V, T_J = 25°C

*Pulse width = 300 usec. Duty cycle = 2%

Thermal and Mechanical

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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UF130 – UF150

Figure 1
Typical Forward Characteristics

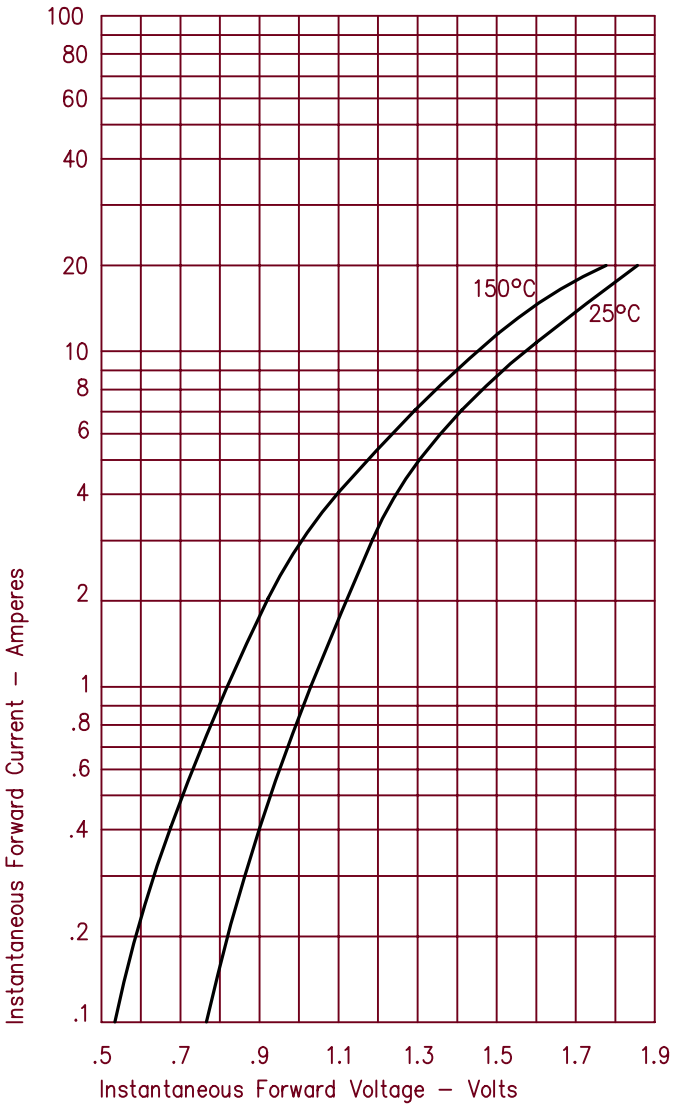


Figure 3
Typical Junction Capacitance

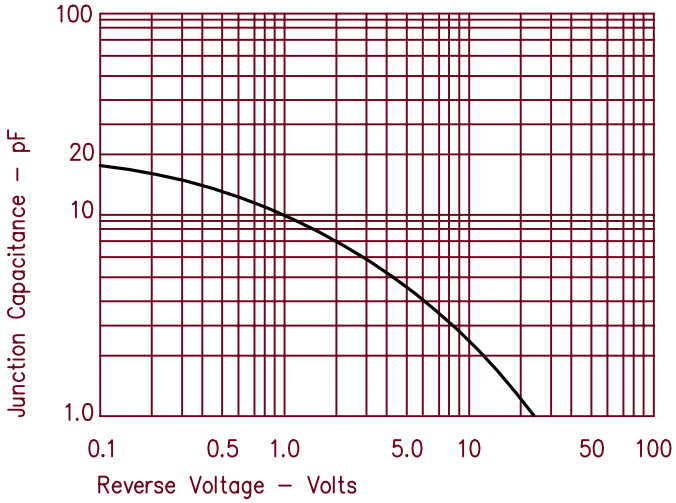


Figure 2
Typical Reverse Characteristics

