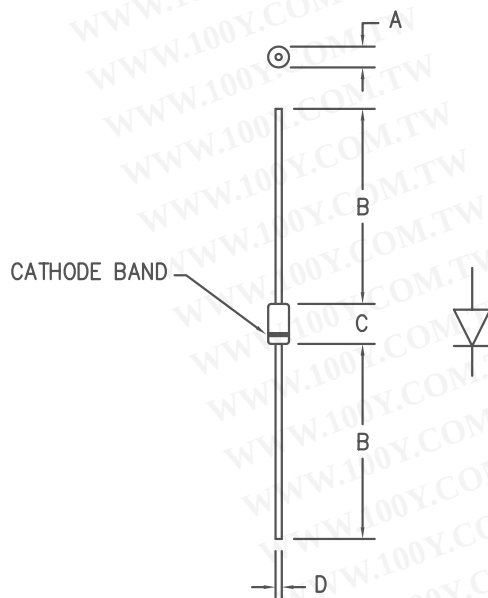


Ultra Fast Recovery Rectifiers

UF130 — UF150



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
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

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UF130	VHE230	300V	300V
UF140	UF4004	400V	400V
	UF4004GP		
UF150	VHE240	500V	500V
	VHE250		

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 300 to 500 Volts
- 1 Amp Current Rating
- [†]RR 50nS Max.

Electrical Characteristics

Average forward current
 Maximum surge current
 Max peak forward voltage
 Max peak forward voltage
 Max reverse recovery time
 Max peak reverse current
 Typical junction capacitance

I_{F(AV)} 1.0 Amps
 I_{FSM} 30 Amps
 V_{FM} .80 Volts
 V_{FM} 1.1 Volts
[†]RR 50 nS
 I_{RM} 10 μ A
 C_J 2.5 pF

T_L = 125°C, Square wave, R θ JL = 25°C/W, L = 1/4"
 8.3ms, half sine, T_J = 175°C
 I_{FM} = 0.1A: T_J = 25°C*
 I_{FM} = 1.0A: T_J = 25°C*
 1/2A, 1A, 1/4A, T_J = 25°C
 V_{RRM}, T_J = 25°C
 V_R = 10V, T_J = 25°C

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

Thermal and Mechanical

Storage temperature range
 Operating junction temp range
 Maximum thermal resistance
 Weight

T_{STG}
 T_J
 L = 1/4" R θ JL

-55°C to 175°C
 -55°C to 175°C
 25°C/W Junction to Lead
 .011 ounces (0.34 grams) typical

7-2-04 Rev. 3

UF130 — UF150

Figure 1
Typical Forward Characteristics

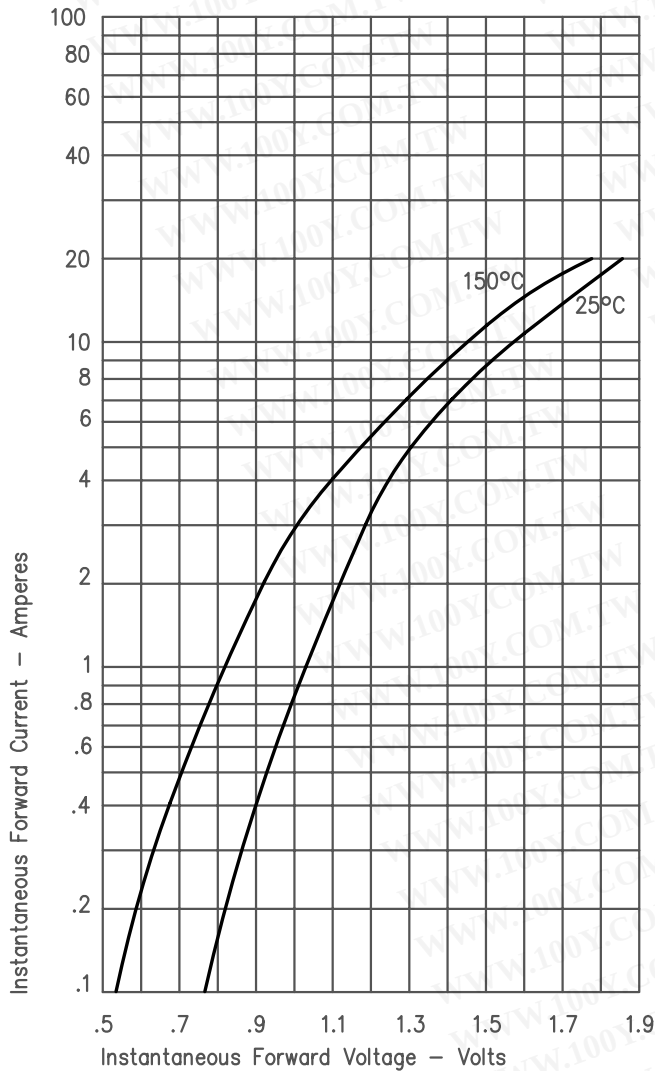


Figure 3
Typical Junction Capacitance

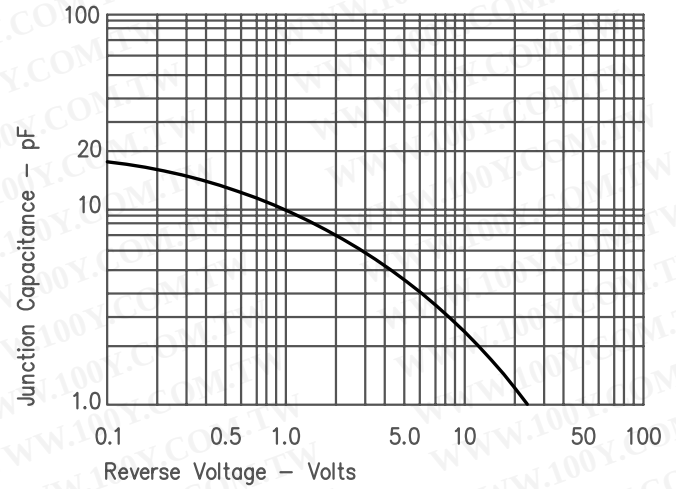
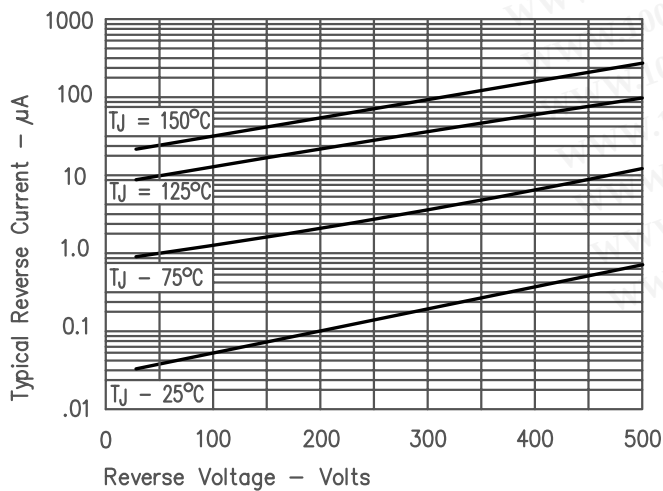


Figure 2
Typical Reverse Characteristics



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