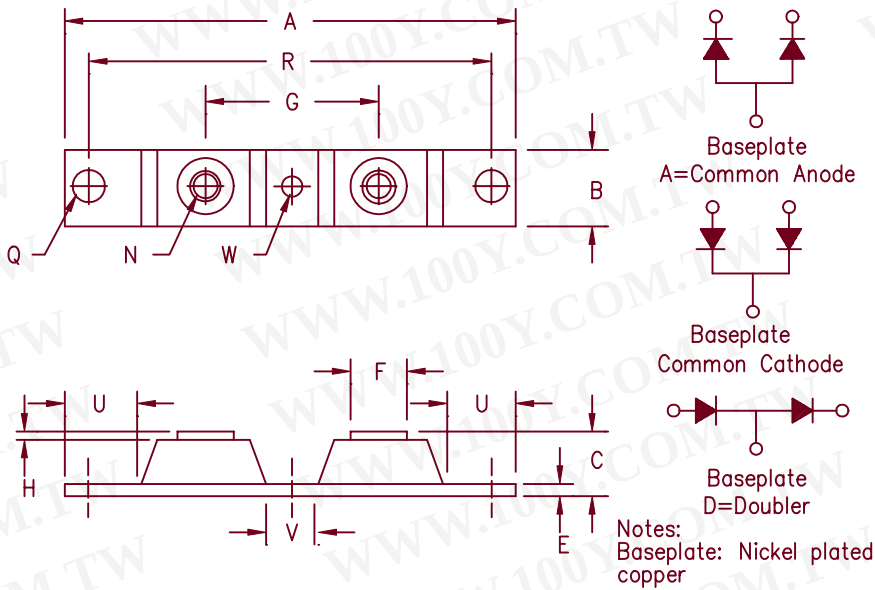


Ultrafast Recovery Modules UFT200, 201 & 202



Dim. Inches		Millimeters		Notes
Min.	Max.	Min.	Max.	
A	---	3.630	---	92.20
B	0.700	0.800	17.78	20.32
C	---	0.630	---	16.00
E	0.120	0.130	3.05	3.30
F	0.490	0.510	12.45	12.95
G	1.375 BSC		34.92 BSC	
H	0.010	---	0.25	---
N	---	---	---	1/4-20
Q	0.275	0.290	6.99	7.37 Dia.
R	3.150 BSC		80.01 BSC	
U	0.600	---	15.24	---
V	0.312	0.340	7.92	8.64
W	0.180	0.195	4.57	4.95 Dia.

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UFT20005*	50V	50V
UFT20010*	100V	100V
UFT20015*	150V	150V
UFT20020*UFT20120*	200V	200V
UFT20130*	300V	300V
UFT20140*	400V	400V
UFT20150*	500V	500V
UFT20260*	600V	600V
UFT20270*	700V	700V
UFT20280*	800V	800V

Add Suffix A for Common Anode, D for Doubler

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 50 to 800 Volts
- High surge capacity
- 2 X 100 Amp current rating

Electrical Characteristics

	UFT200	UFT201	UFT202	
Average forward current per pkg	I _{F(AV)} 200A	200A	200A	Square Wave
Average forward current per leg	I _{F(AV)} 100A	100A	100A	Square Wave
Case Temperature	T _C 135°C	120°C	115°C	RθJC = 0.5°C/W
Maximum surge current per leg	I _{FSM} 1500A	1400A	1200A	8.3ms, half sine, T _J = 175°C
Max peak forward voltage per leg	V _{FM} .975V	1.25V	1.35V	I _{FM} = 100A: T _J = 25°C*
Max reverse recovery time per leg	t _{rr} 50ns	70ns	90ns	1/2A, 1A, 1/4A, T _J = 25°C
Max peak reverse current per leg	I _{RM} ---	6.0mA	---	VRRM, T _J = 125°C
Max peak reverse current per leg	I _{RM} ---	50μA	---	VRRM, T _J = 25°C
Typical Junction capacitance	C _J 575pF	300pF	275pF	VR = 10V, T _J = 25°C

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

Thermal and Mechanical Characteristics

Storage temp range	T _{STG}	-55°C to 175°C
Operating junction temp range	T _J	-55°C to 175°C
Max thermal resistance per leg	RθJC	0.5°C/W Junction to case
Max thermal resistance per pkg	RθJC	0.25°C/W Junction to case
Typical thermal resistance	RθCS	0.08°C/W Case to sink
Terminal Torque		35-50 inch pounds
Mounting base torque - (outside holes)		30-40 inch pounds
Mounting base torque - (center hole)		8-10 inch pounds
center bolt must be torqued first		
Weight		2.8 ounces (75 grams) typical

胜特力材料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Figure 1

Typical Forward Characteristics – Per Leg

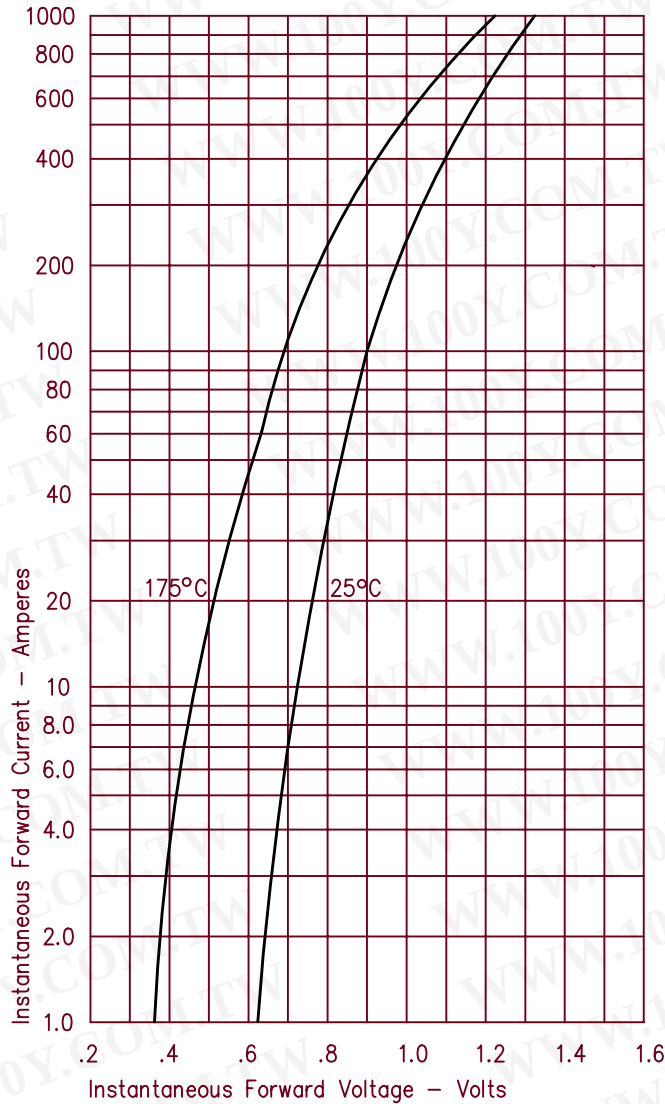


Figure 3

Typical Junction Capacitance – Per Leg

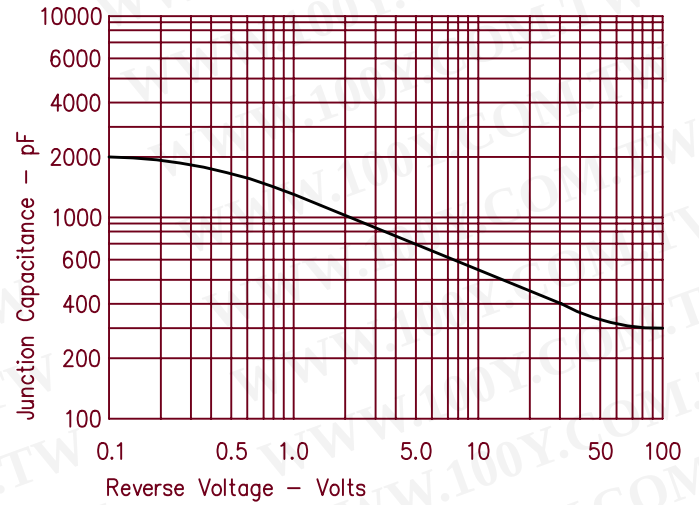


Figure 4

Forward Current Derating – Per Leg

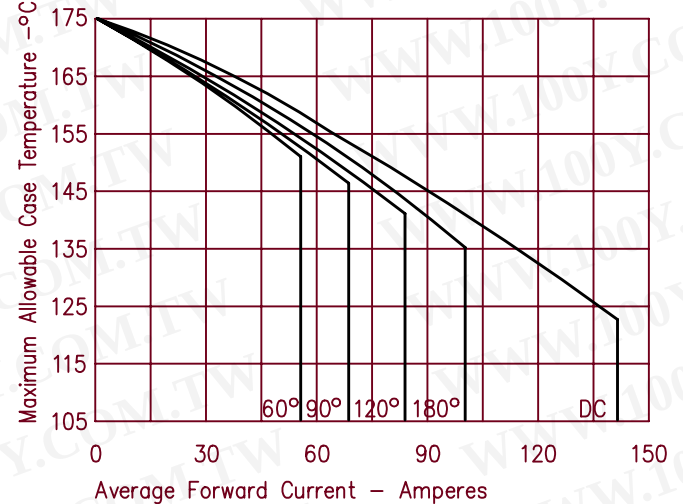


Figure 2

Typical Reverse Characteristics – Per Leg

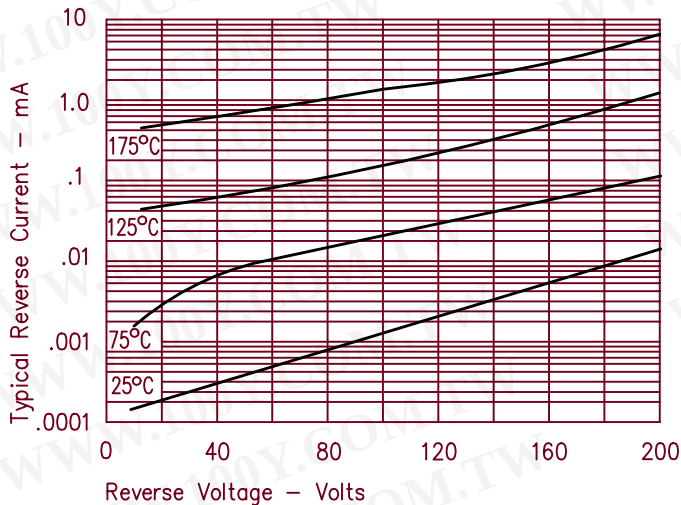
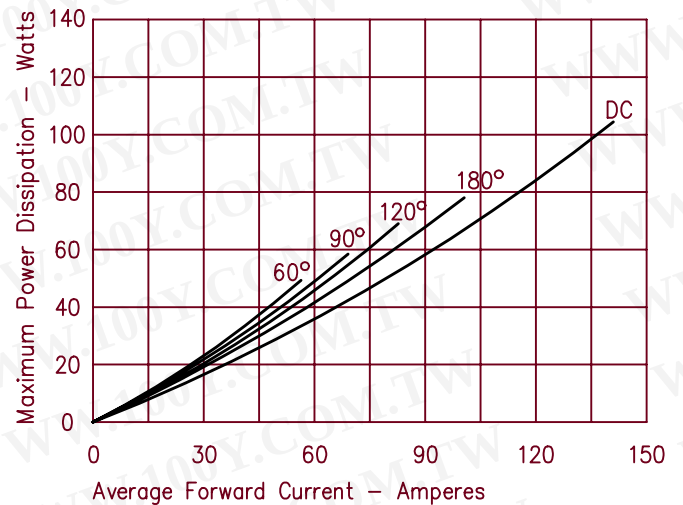


Figure 5

Maximum Forward Power Dissipation – Per Leg



UFT201

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Figure 1
 Typical Forward Characteristics – Per Leg

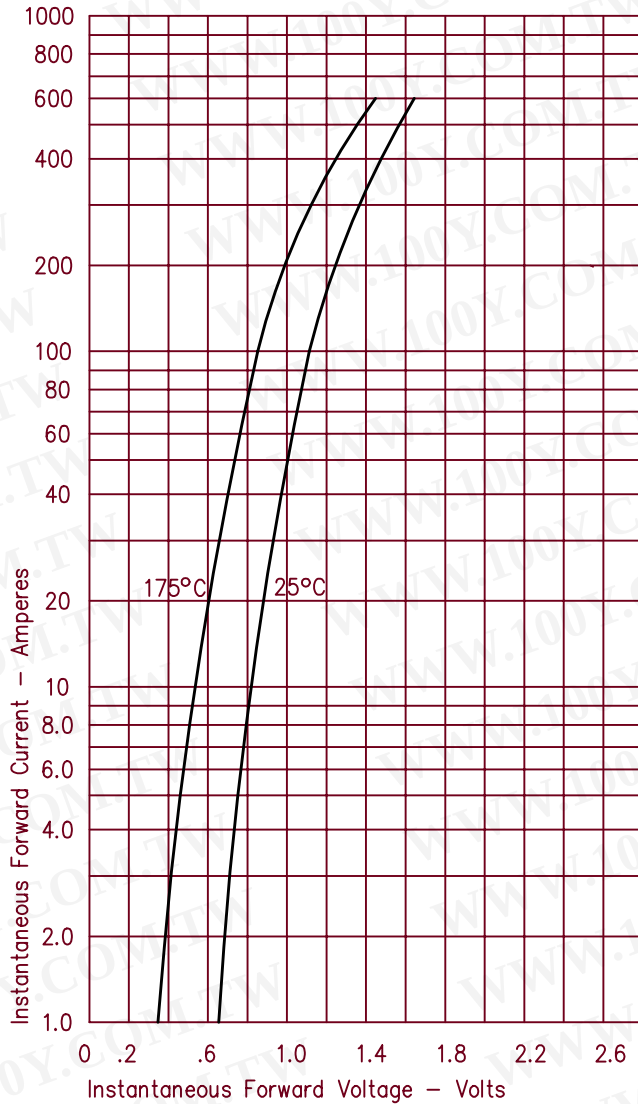


Figure 3
 Typical Junction Capacitance – Per Leg

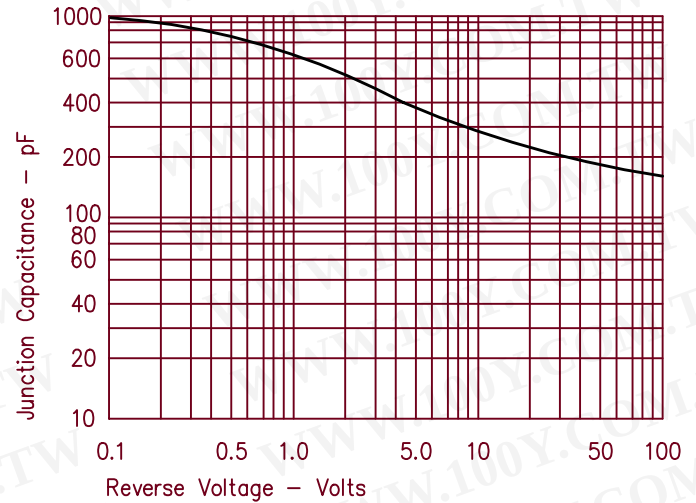


Figure 4
 Forward Current Derating – Per Leg

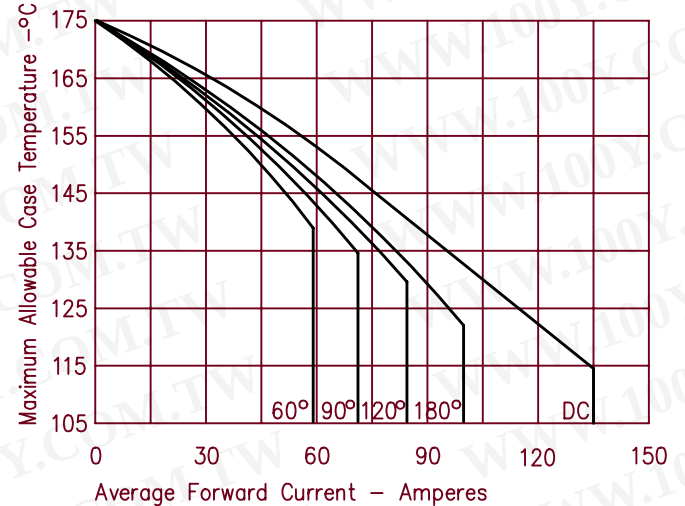


Figure 2
 Typical Reverse Characteristics – Per Leg

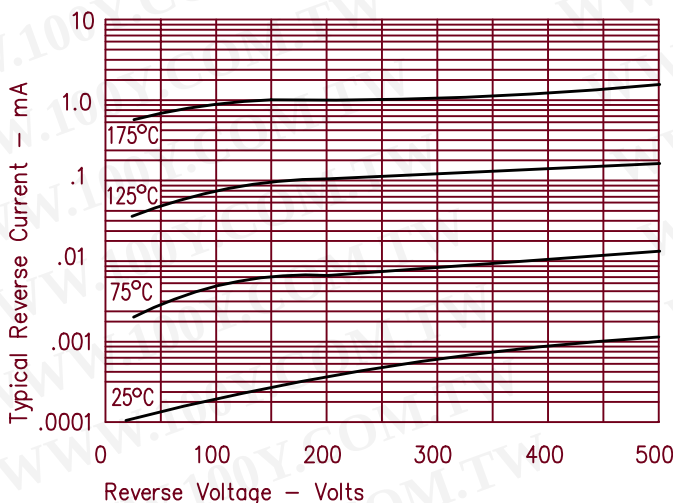


Figure 5
 Maximum Forward Power Dissipation – Per Leg

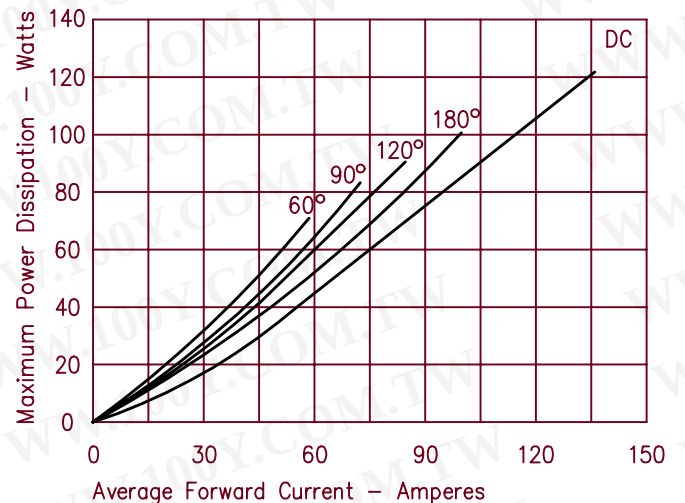


Figure 1
 Typical Forward Characteristics – Per Leg

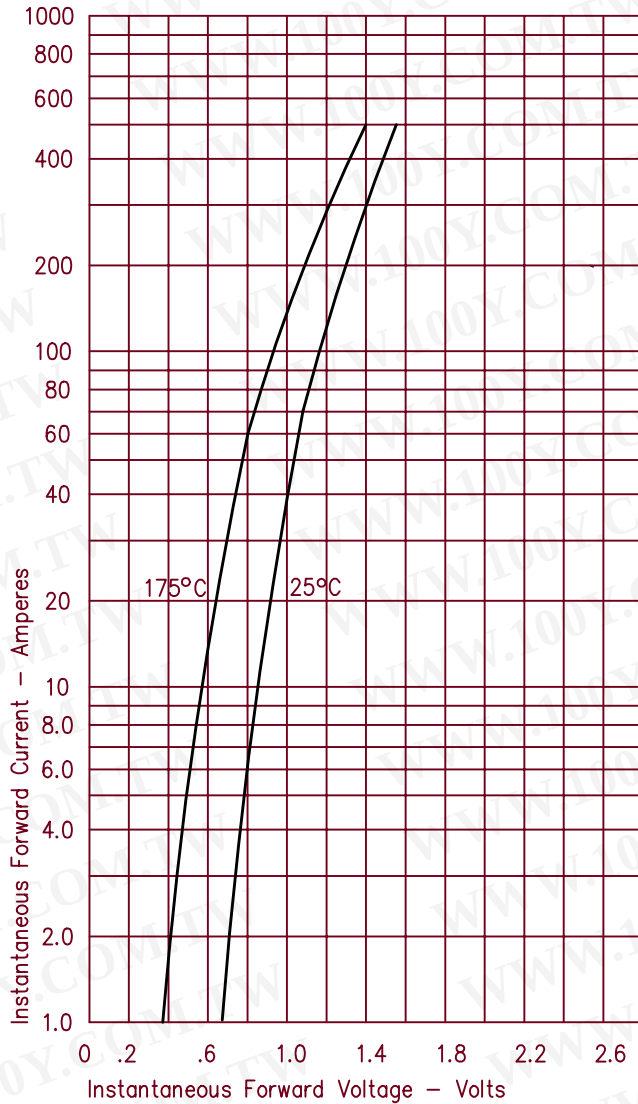


Figure 3
 Typical Junction Capacitance – Per Leg

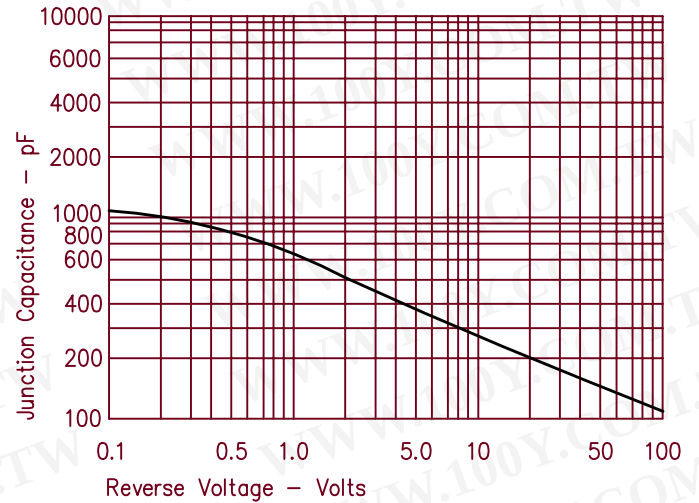


Figure 4
 Forward Current Derating – Per Leg

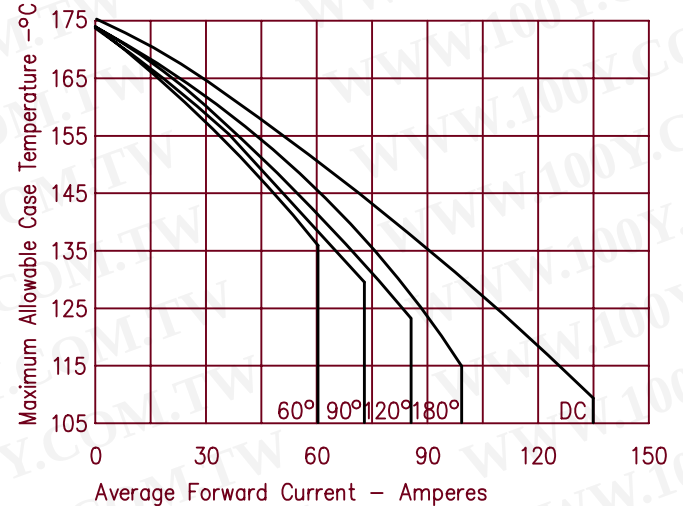


Figure 2
 Typical Reverse Characteristics – Per Leg

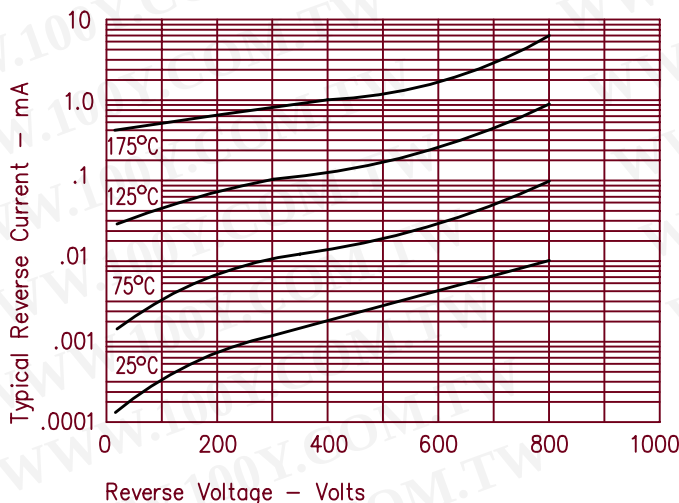


Figure 5
 Maximum Forward Power Dissipation – Per Leg

