Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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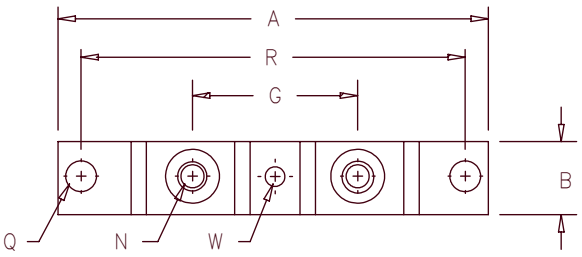
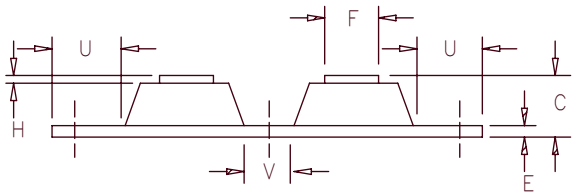
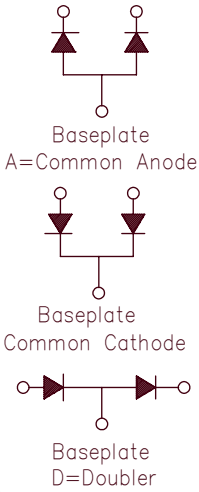
Ultrafast Recovery Modules

UFT200, 201 & 202







Notes:
Baseplate: Nickel plated copper

Dim.	Inches		Millimeters		
	Min.	Max.	Min.	Max.	Notes
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
- V_{RRM} 50 to 800 Volts
- High surge capacity
- 2 X 100 Amp current rating
- ROHS Compliant

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	$R_{\theta JC}$ = 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	trr	50ns	70ns	90ns	1/2A, 1A, 1/4A, T_J = 25°C
Max peak reverse current per leg	I_{RM}	———	6.0mA	———	V_{RRM}, T_J = 125°C
Max peak reverse current per leg	I_{RM}	———	50µA	———	V_{RRM}, T_J = 25°C
Typical Junction capacitance	C_J	575pF	300pF	275pF	V_R = 10V, T_J = 25°C

*Pulse test: Pulse width 300µsec, 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	$R_{\theta JC}$	0.5°C/W Junction to case
Max thermal resistance per pkg	$R_{\theta JC}$	0.25°C/W Junction to case
Typical thermal resistance	$R_{\theta CS}$	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

UFT200

Figure 1
Typical Forward Characteristics – Per Leg

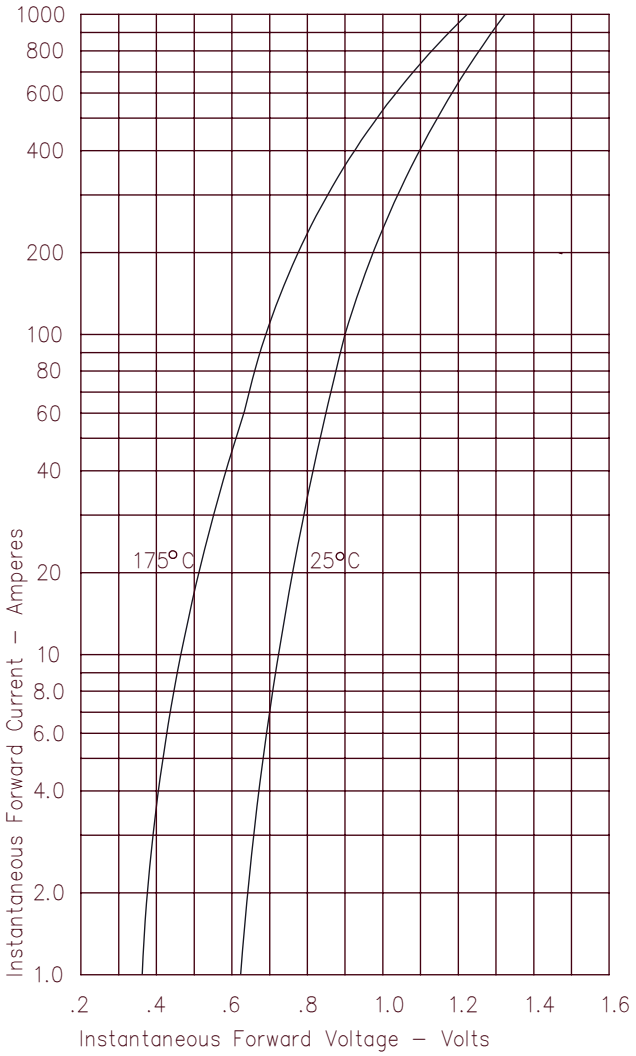


Figure 2
Typical Reverse Characteristics – Per Leg

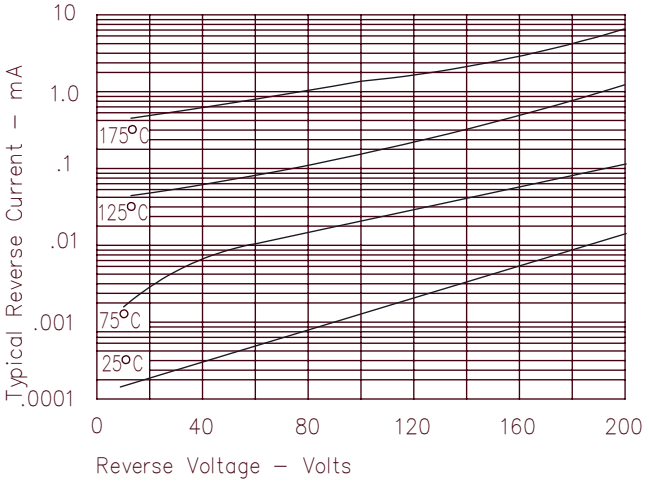


Figure 3
Typical Junction Capacitance – Per Leg

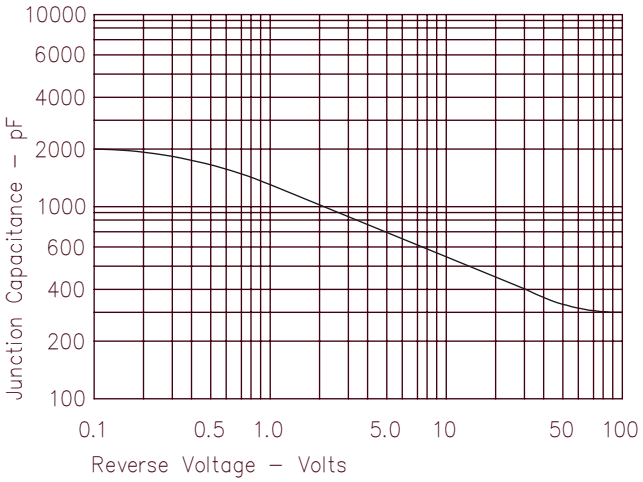


Figure 4
Forward Current Derating – Per Leg

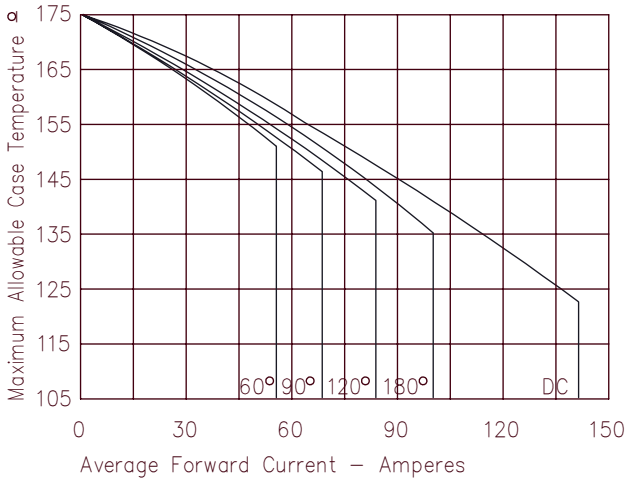
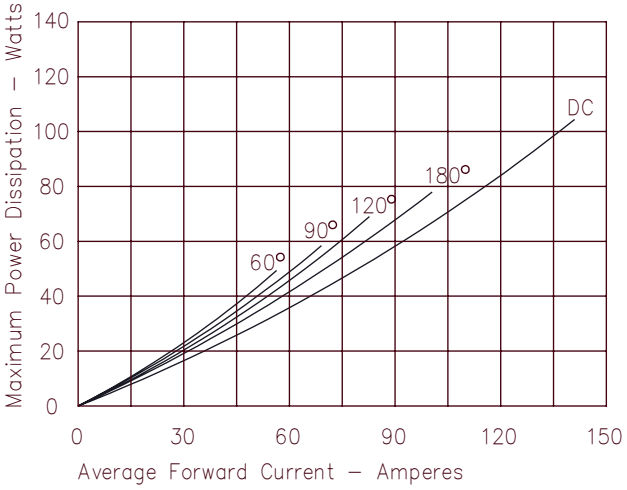


Figure 5
Maximum Forward Power Dissipation – Per Leg



UFT201

Figure 1
Typical Forward Characteristics – Per Leg

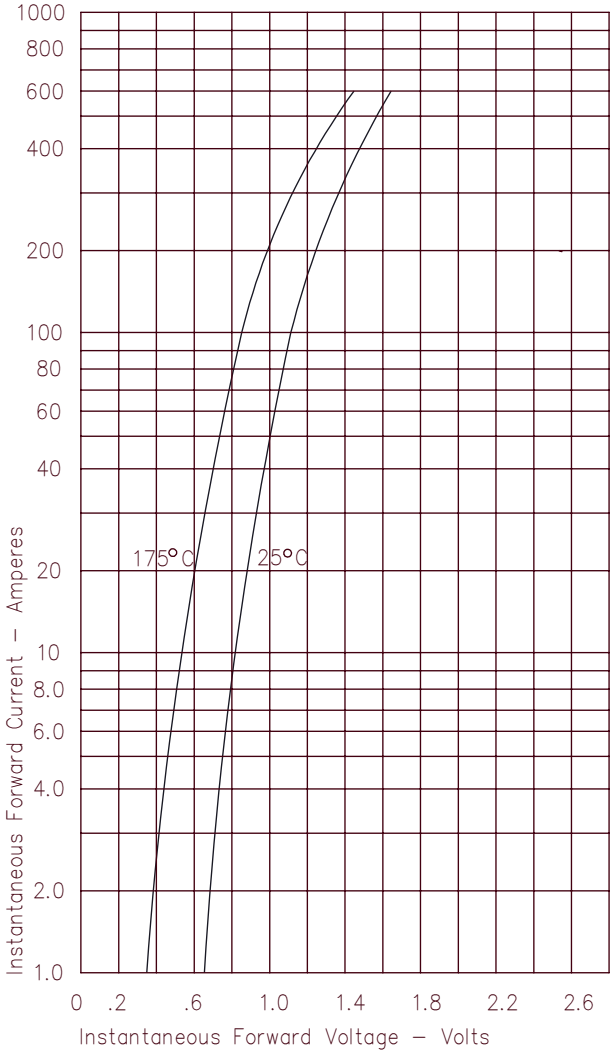


Figure 2
Typical Reverse Characteristics – Per Leg

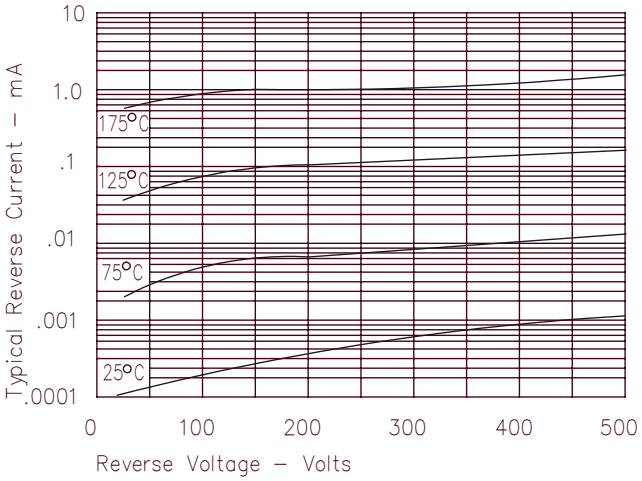


Figure 3
Typical Junction Capacitance – Per Leg

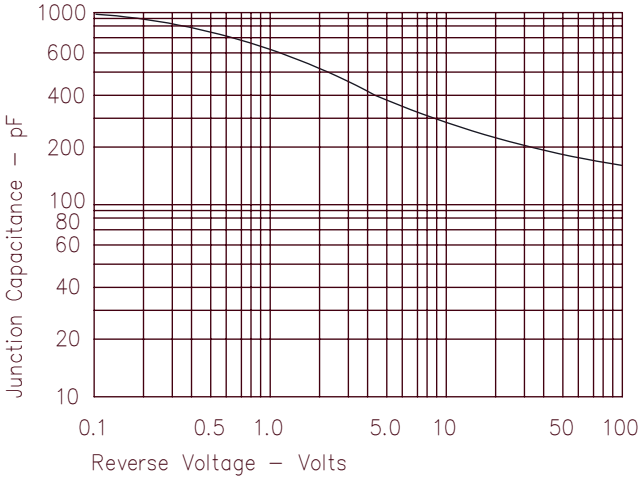


Figure 4
Forward Current Derating – Per Leg

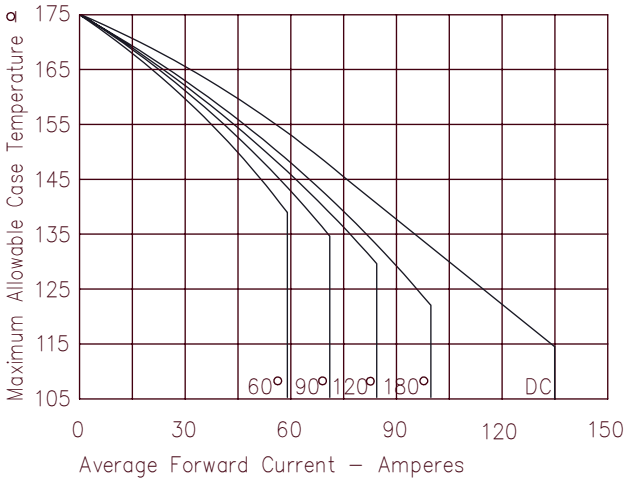
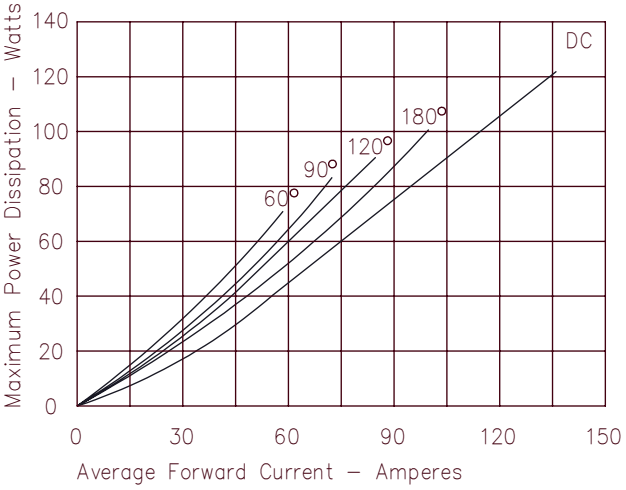


Figure 5
Maximum Forward Power Dissipation – Per Leg



UFT202

Figure 1
Typical Forward Characteristics – Per Leg

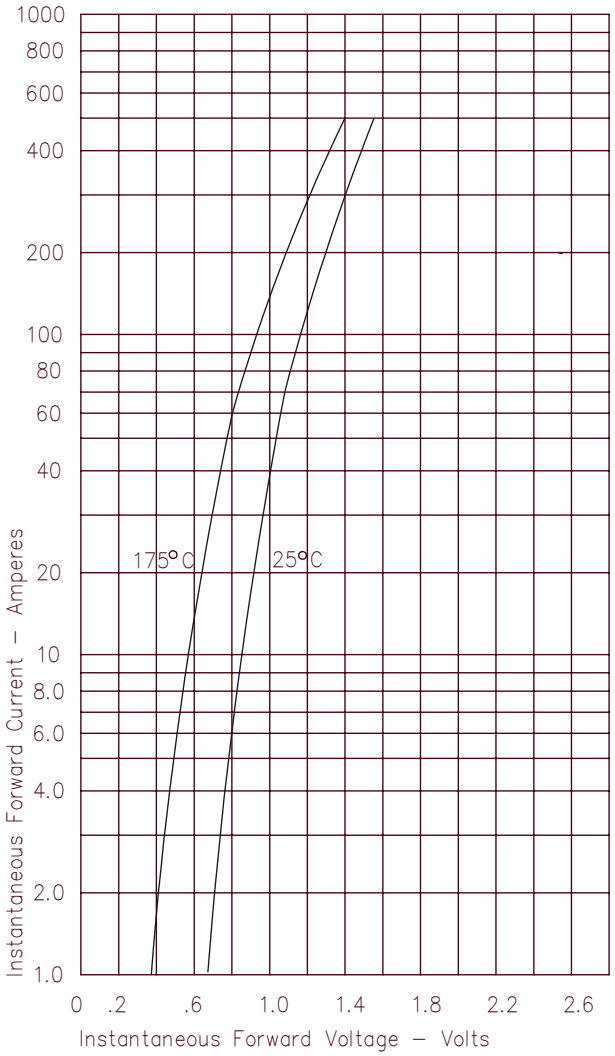


Figure 2
Typical Reverse Characteristics – Per Leg

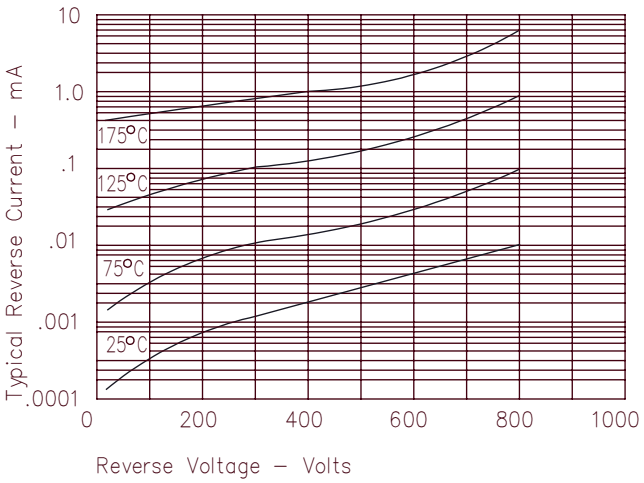


Figure 3
Typical Junction Capacitance – Per Leg

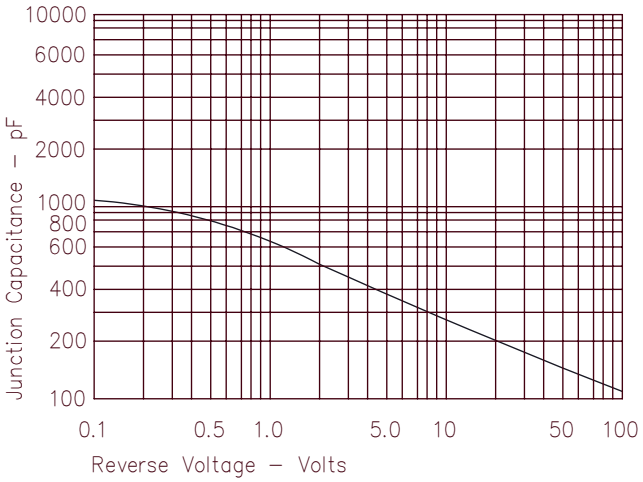


Figure 4
Forward Current Derating – Per Leg

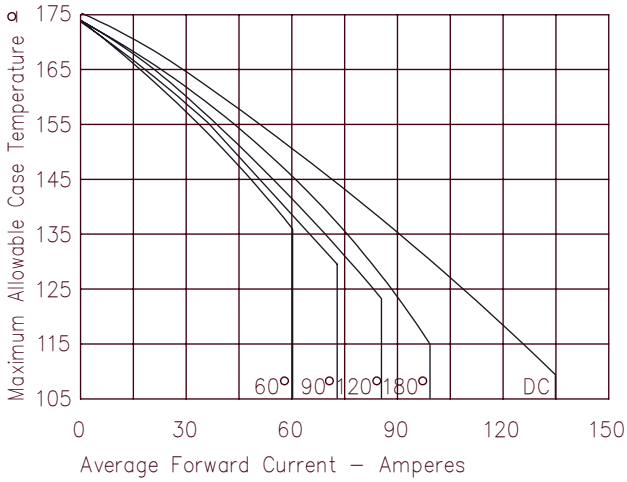


Figure 5
Maximum Forward Power Dissipation – Per Leg