

• Power switching circuits

2. Anode

ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings Tc=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	1200	V
I _{F(AV)}	Average Rectified Forward Current @ T _C = 100°C	5	A
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	30	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

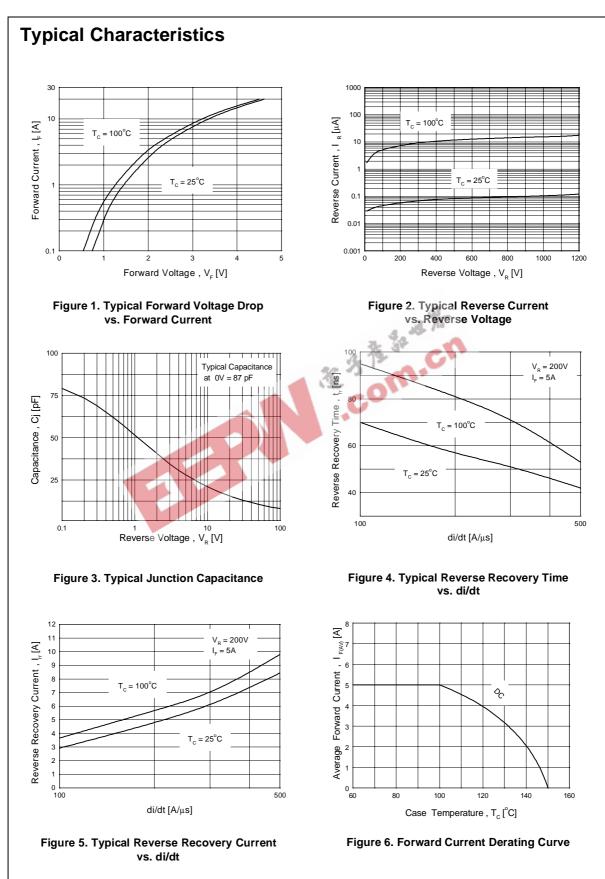
Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case	3.4	°C/W

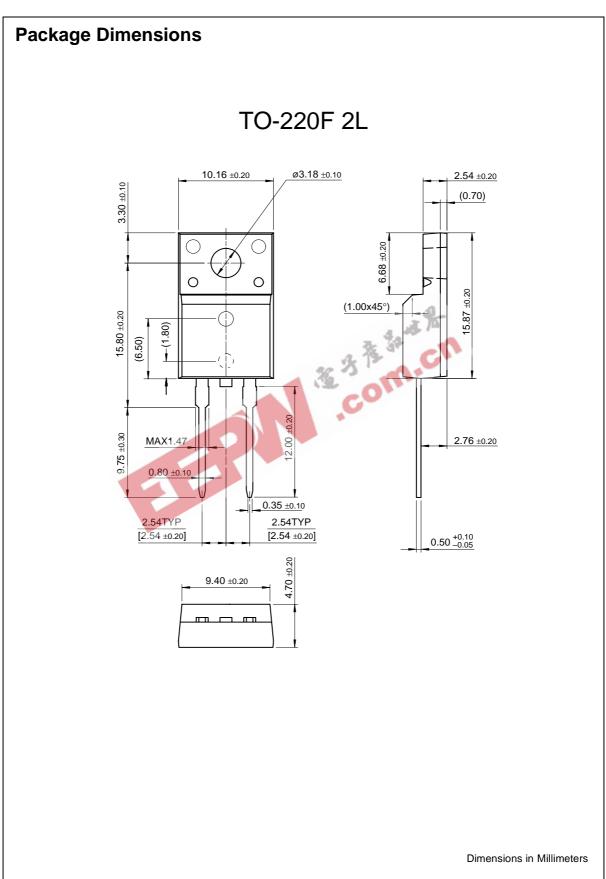
Electrical Characteristics T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	I _F = 5A	T _C = 25 °C	-	-	3.5	
	I _F = 5A	T _C = 25 °C T _C = 100 °C	-	-	3.2	
RM *	Maximum Instantaneous Reverse Current					μA
	@ rated V _R	T _C = 25 °C	-	-	5	
		T _C = 25 °C T _C = 100 °C	-	-	600	
trr	Maximum Reverse Recovery Time		-	-	100	ns
rr	Maximum Reverse Recovery Current		-	-	7	А
Q _{rr}	Maximum Reverse Recovery Charge		-	-	280	nC
	(I _F =5A, di/dt = 200A/µs)					
W _{AVL}	Avalanche Energy		1.0	-	-	mJ

t: Pulse Width=300µs, Duty Cycle=2%



FFPF05U120S



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	•	Rev. F1