



ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings Tc=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	30	A
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	300	A
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

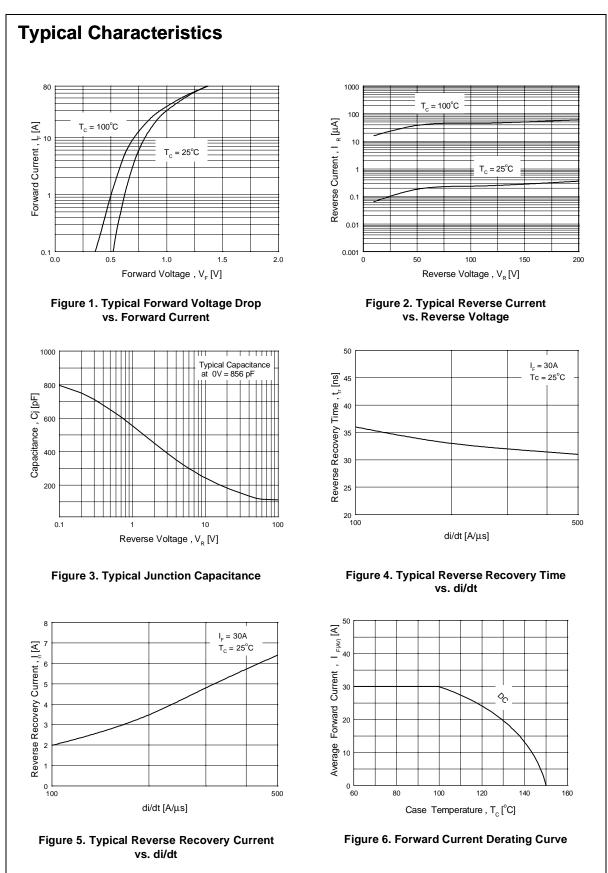
Thermal Characteristics

Symbol	Parameter	Value	Units
R _{0JC}	Maximum Thermal Resistance, Junction to Case	1.7	°C/W

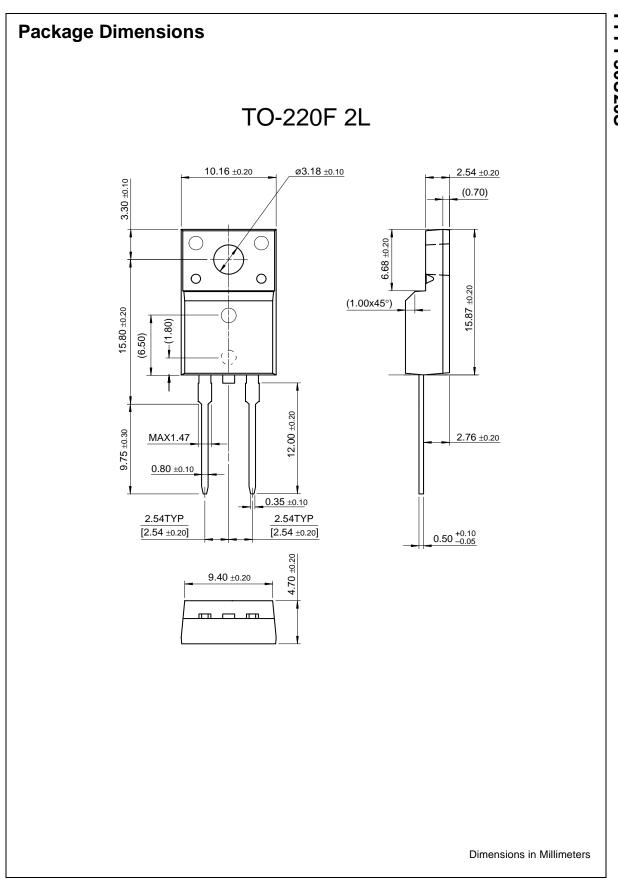
Electrical Characteristics T_C=25 °C unless otherwise noted

Symbol Parameter		Parameter		Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage $I_F = 30A$	T _C = 25 °C T _C = 100 °C		S. W	1.2	V
	$I_F = 30A$	$T_{\rm C} = 100 ^{\circ}{\rm C}$		-	1.0	
RM *	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 100 °C	-	-	30 300	μA
r r	Maximum Reverse Recovery Time Maximum Reverse Recovery Current		-	-	40 4.0	ns A
Q _{rr}	Maximum Reverse Recovery Charge (I _F =30A, di/dt = 200A/μs)		-	-	80	nC
V _{AVL}	Avalanche Energy		0.5	-	-	mJ

Pulse Test: Pulse Width=300µs, Duty Cycle=2%



FFPF30U20S



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