

• Power switching circuits

1. Cathode 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	600	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	180	A
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

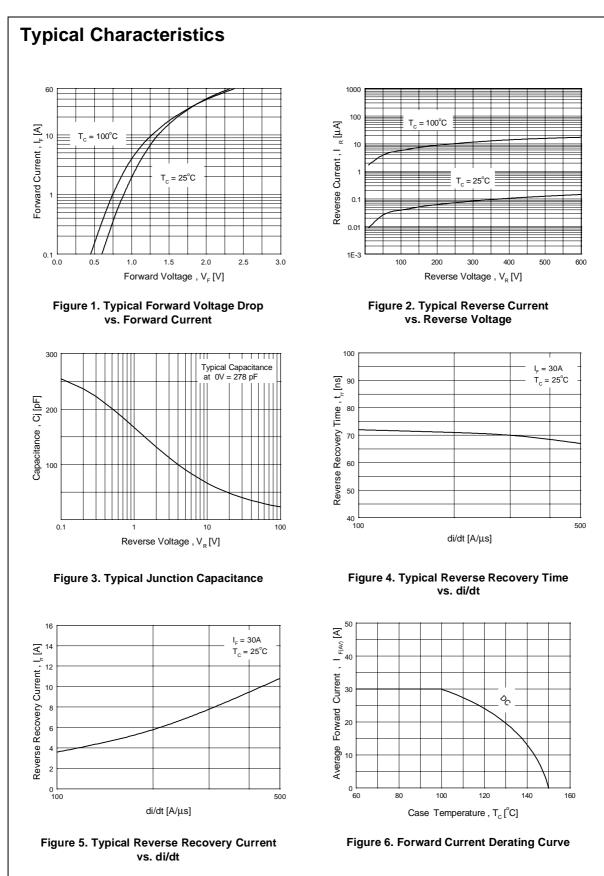
Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case	0.8	°C/W

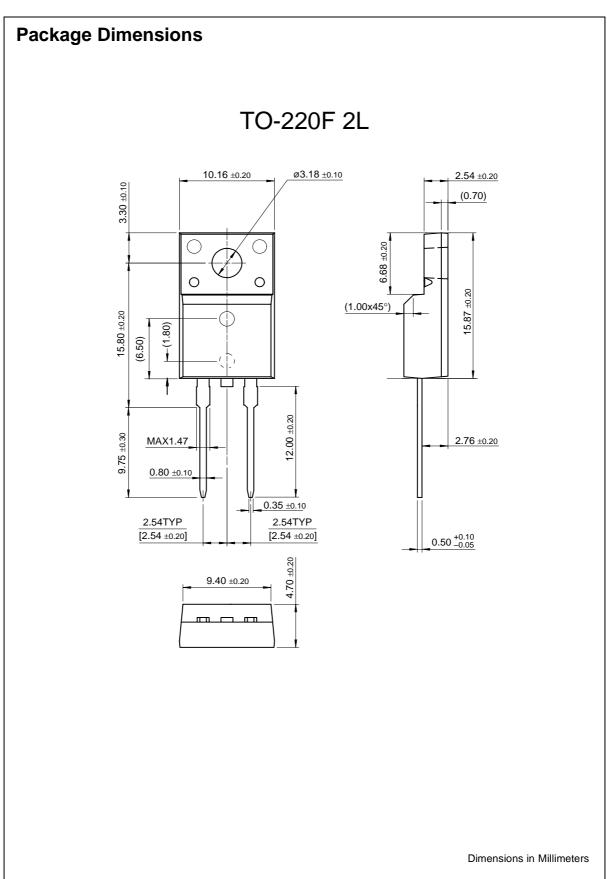
Electrical Characteristics Tc=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
					2.3	
	I _F = 30A	T _C = 25 °C			2.1	
	I _F = 30A	T _C = 25 °C T _C = 100 °C				
I _{RM} *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V _R	T _C = 25 °C			15	
		T _C = 25 °C T _C = 100 °C			150	
t _{rr}	Maximum Reverse Recovery Time				90	ns
Irr	Maximum Reverse Recovery Current				8	А
Q _{rr}	Maximum Reverse Recovery Charge				360	nC
	(I _F =30A, di/dt = 200A/μs)					
W _{AVL}	Avalanche Energy		1.0			mJ

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