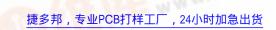
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ULTRA FAST RECOVERY POWER RECTIFIER

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 $@T_{C} = 100^{\circ}C$	10	A
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	60	A
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

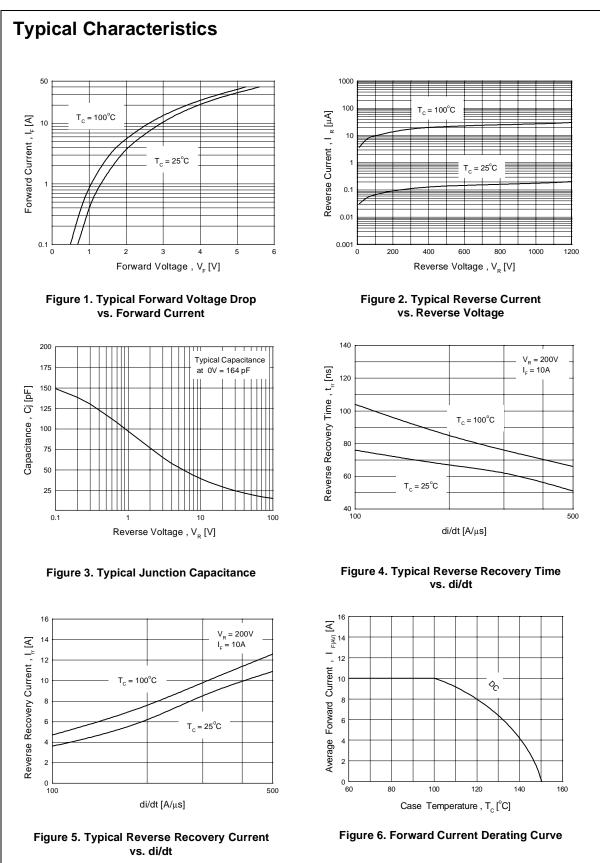
Thermal Characteristics

Symbol	Parameter	Value	Units
R _{θJC}	Maximum Thermal Resistance, Junction to Case	1.5	°C/W

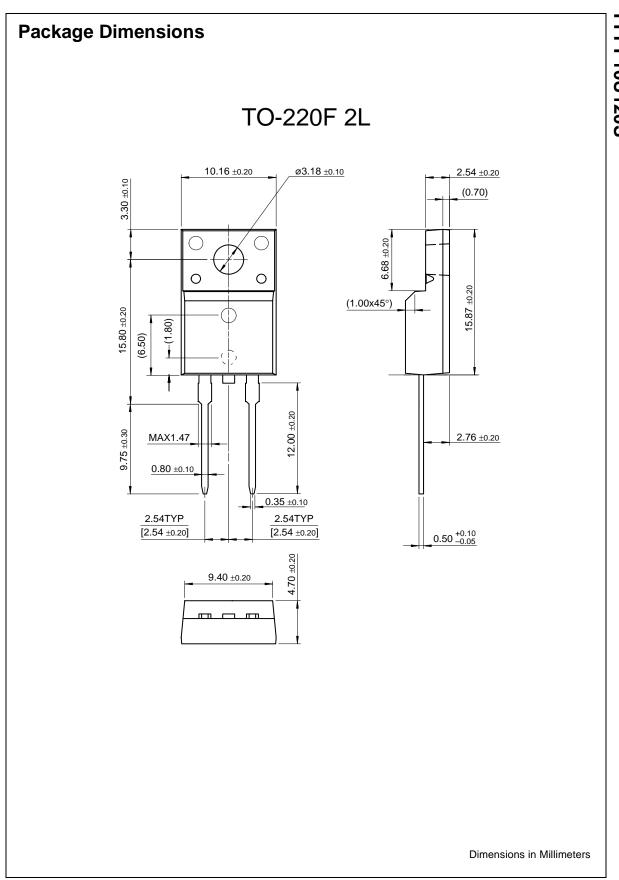
Electrical Characteristics T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
/ _{FM} *	Maximum Instantaneous Forward Voltage $I_F = 10A$	T _C = 25 °C	3	12.4	3.5	V
	I _F = 10A	T _C = 25 °C T _C = 100 °C	12. 1	-	3.2	
I _{RM} *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V _R	T _C = 25 °C T _C = 100 °C	-	-	10	
	- COM	T _C = 100 °C	-	-	800	
rr	Maximum Reverse Recovery Time		-	-	100	ns
r	Maximum Reverse Recovery Current		-	-	8	А
Q _{rr}	Maximum Reverse Recovery Charge (I _F =10A, di/dt = 200A/μs)		-	-	360	nC
N _{AVL}	Avalanche Energy		1.0	-	-	mJ

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



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PRODUCT STATUS DEFINITIONS

Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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