

ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings T_C=25°C unless otherwise noted

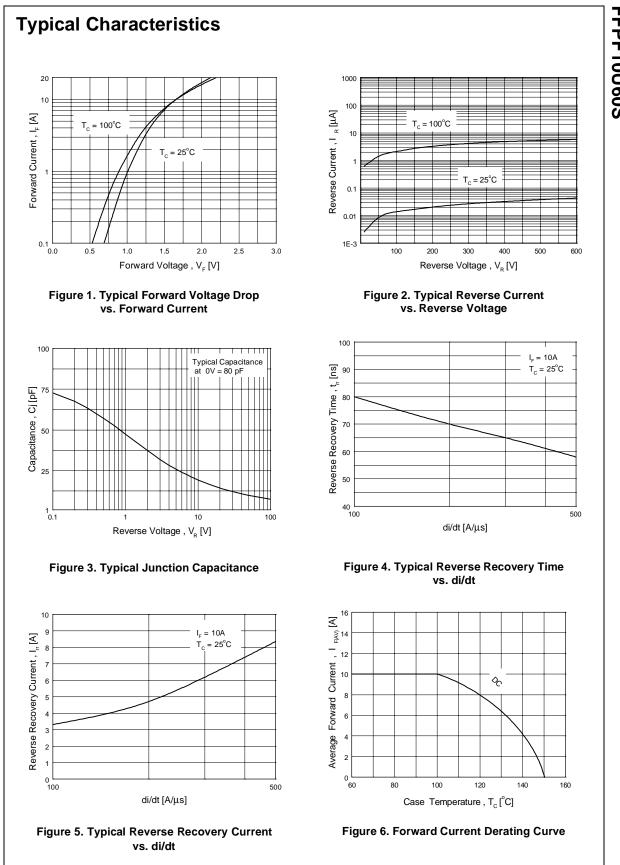
Symbol	Parameter	Value	Units	
V _{RRM}	Peak Repetitive Reverse Voltage	600	V	
I _{F(AV)}	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	10	А	
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	60	A	
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C	

Thermal Characteristics

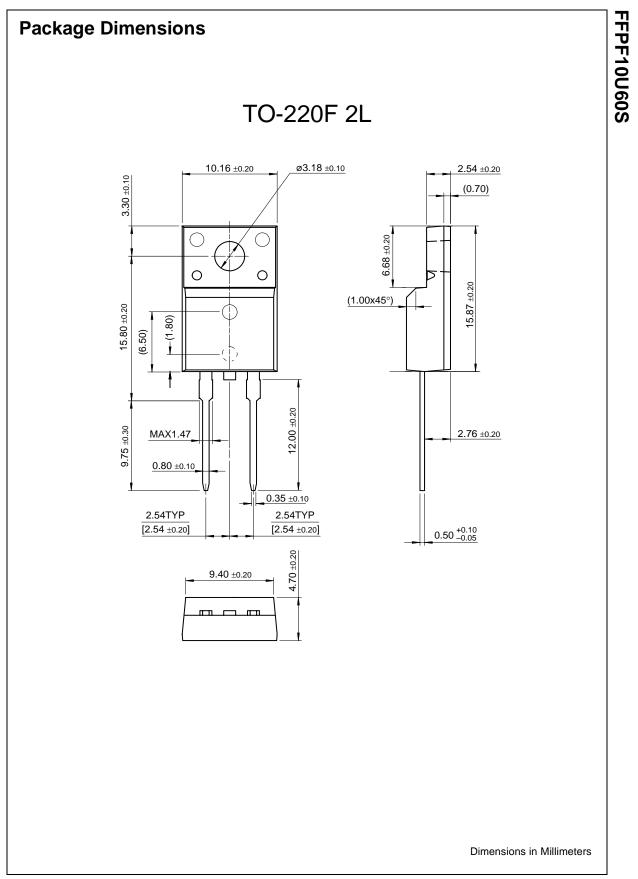
Symbol	Parameter	Value	Units
R _{θJC}	Maximum Thermal Resistance, Junction to Case	2.5	°C/W

Electrical Characteristics T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	I _F = 10A I _F = 10A	T _C = 25 °C T _C = 100 °C			2.2 2.0	
RM *	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 100 °C			5 50	μA
rr Qrr	Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge $(I_F = 10A, di/dt = 200A/\mu s)$				90 6 270	ns A nC
W _{AVL}	Avalanche Energy		1.0			mJ



FFPF10U60S



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
FFPF10U60STU	Full Production	\$0.43	<u>TO-220F</u>	2	RAIL

* 1,000 piece Budgetary Pricing

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