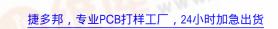
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## ULTRA FAST RECOVERY POWER RECTIFIER

### Absolute Maximum Ratings Tc=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	1200	V
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	15	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	90	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C

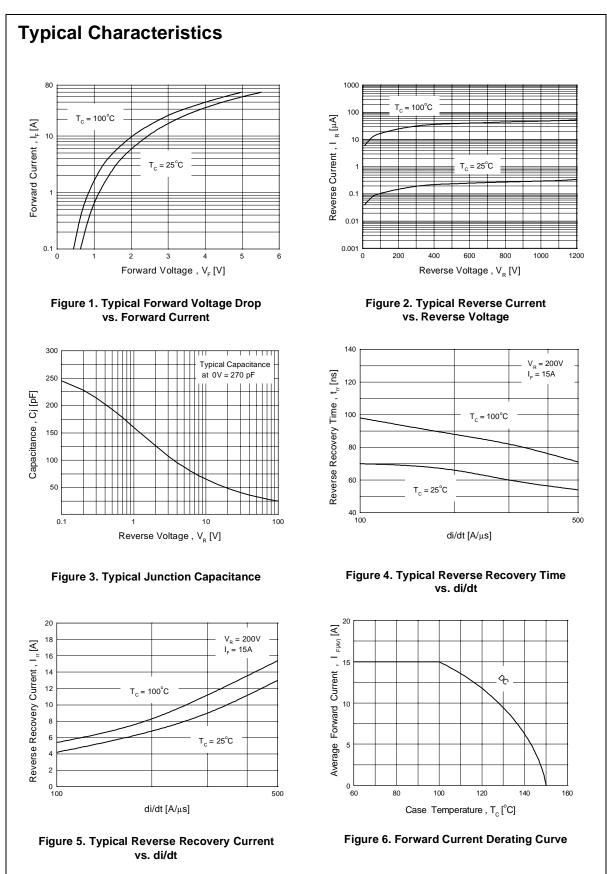
## **Thermal Characteristics**

Symbol	Parameter	Value	Units
R <sub>θJC</sub>	Maximum Thermal Resistance, Junction to Case	1.0	°C/W

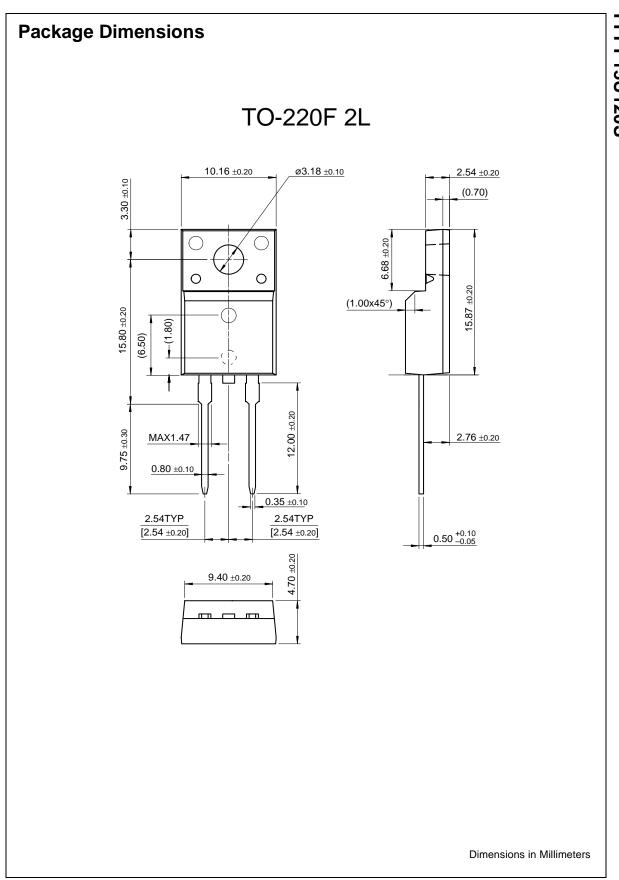
### Electrical Characteristics T<sub>C</sub>=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage		2.315	1.	NI WE	V
	I <sub>F</sub> = 15A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C			3.5	
	I <sub>F</sub> = 15A	T <sub>C</sub> = 100 °C	-	-	3.2	
RM *	Maximum Instantaneous Reverse Current					
	@ rated V <sub>R</sub>	$T_{\rm C} = 25 \ ^{\circ}{\rm C}$	-	-	15	μΑ
	COM COM	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	1	mA
rr i i i i i i i i i i i i i i i i i i	Maximum Reverse Recovery Time		-	-	100	ns
rr	Maximum Reverse Recovery Current		-	-	9	А
Q <sub>rr</sub>	Maximum Reverse Recovery Charge		-	-	405	nC
and the second	(I <sub>F</sub> =15A, di/dt = 200A/µs)					
N <sub>AVL</sub>	Avalanche Energy		1.0	-	-	mJ

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



## **FFPF15U120S**



# **FFPF15U120S**

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FAST®	Powerirench®	UHC™	

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#### PRODUCT STATUS DEFINITIONS

### **Definition of Terms**

Datasheet Identification	Product Status	Definition
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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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