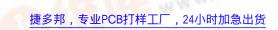
### 查询FFPF06U40DP供应商





## ULTRA FAST RECOVERY POWER RECTIFIER

### Absolute Maximum Ratings (per diode) T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	400	V
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	6	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	60	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and StorageTemperature	- 65 to +150	°C

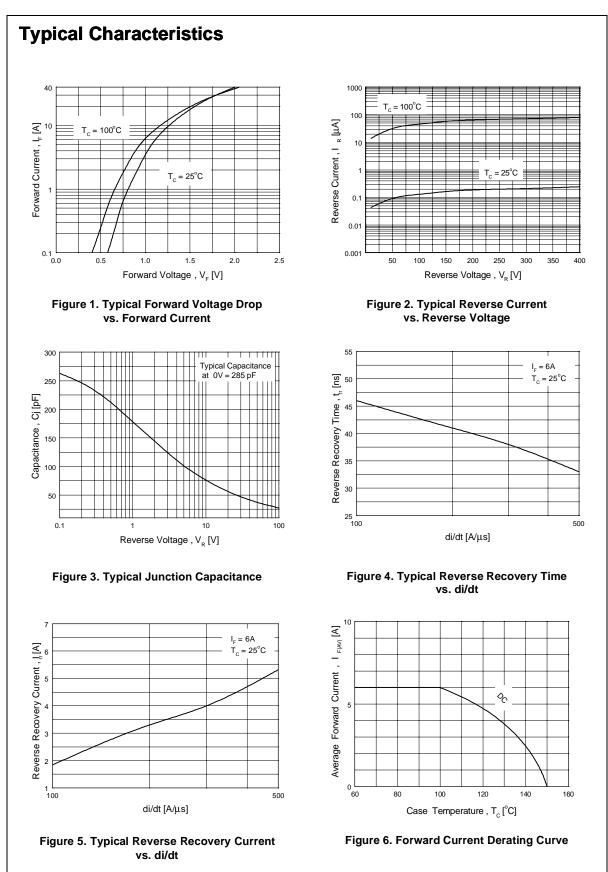
## **Thermal Characteristics**

Symbol	Parameter	Value	Units
R <sub>θJC</sub>	Maximum Thermal Resistance, Junction to Case	7.0	°C/W

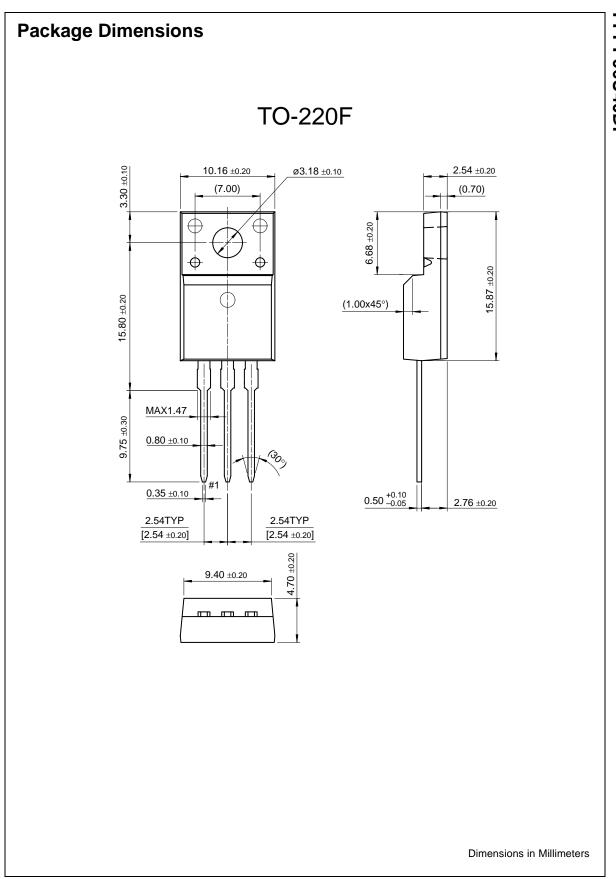
### Electrical Characteristics (per diode) T<sub>C</sub>=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage I <sub>F</sub> = 6A I <sub>F</sub> = 6A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C		Y	1.4 1.3	V
RM *	Maximum Instantaneous Reverse Current @ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	20 200	μA
t <sub>rr</sub> Irr Q <sub>rr</sub>	Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge (I <sub>F</sub> =6A, di/dt = 200Α/μs)		- - -	- - -	50 4.0 100	ns A nC
W <sub>AVL</sub>	Avalanche Energy		1.0	-	-	mJ

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



## FFPF06U40DP



# FFPF06U40DP

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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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