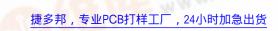
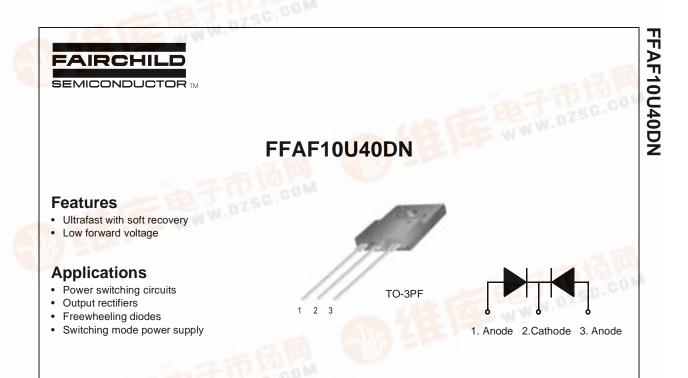
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ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings (per diode) Tc=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	400	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	100	A
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

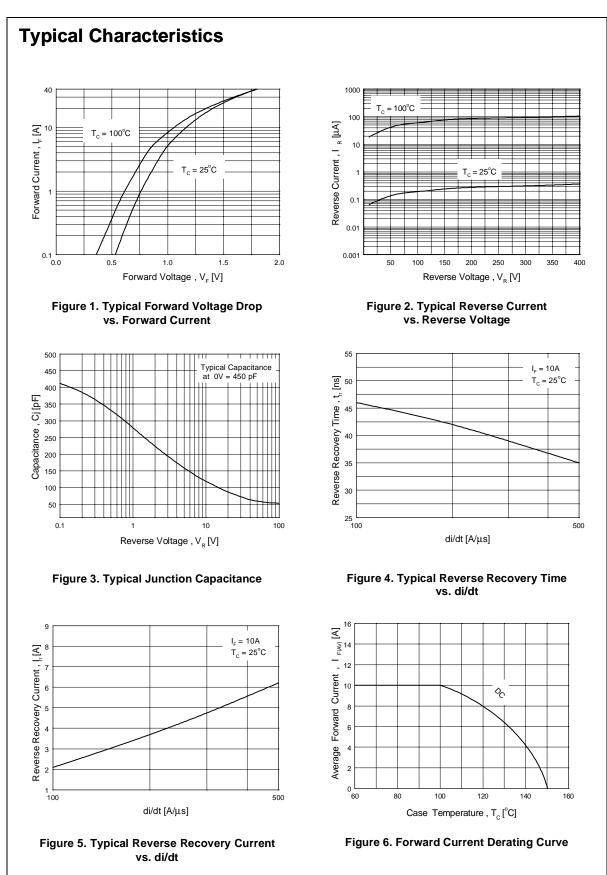
Thermal Characteristics

Symbol	Parameter	Value	Units
R _{θJC}	Maximum Thermal Resistance, Junction to Case	4.0	°C/W

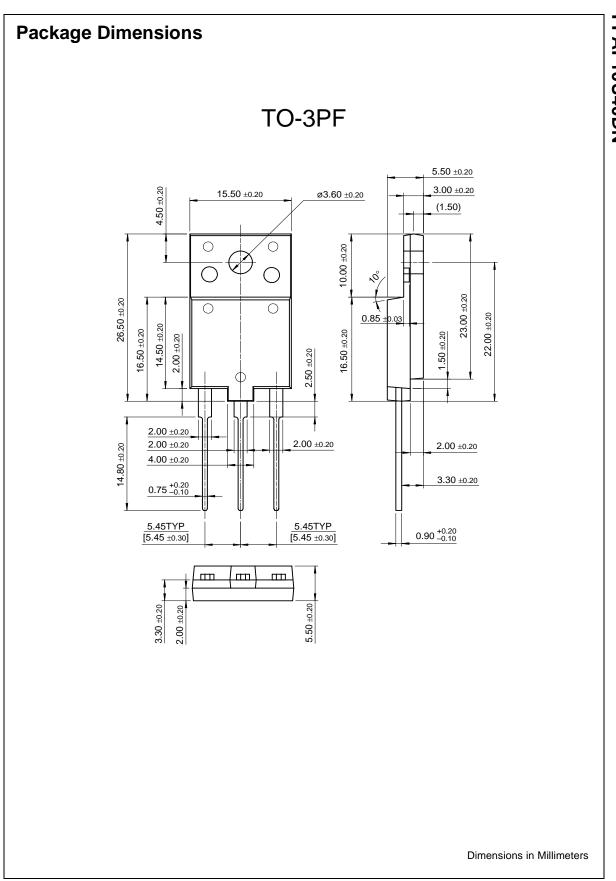
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage	T	2215		WW.	V
	I _F = 10A	T _C = 25 °C T _C = 100 °C			1.4	
	I _F = 10A	T _C = 100 °C	-	-	1.3	
I _{RM} *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V _R	T _C = 25 °C	-	-	30	
	COM COM	T _C = 25 °C T _C = 100 °C	-	-	300	
rr	Maximum Reverse Recovery Time		-	-	50	ns
rr	Maximum Reverse Recovery Current		-	-	4.5	А
2 _{rr}	Maximum Reverse Recovery Charge (I _F =10A, di/dt = 200A/μs)		-	-	113	nC
W _{AVL}	Avalanche Energy		1.0	-	-	mJ

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



FFAF10U40DN



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ACEx [™] Bottomless [™] CoolFET [™] CROSSVOLT [™] DOME [™] E ² CMOS [™] EnSigna [™] FACT [™] FACT Quiet Series [™] FAST [®]	FASTr™ GlobalOptoisolator™ GTO™ HiSeC™ ISOPLANAR™ MICROWIRE™ OPTOLOGIC™ OPTOPLANAR™ POP™ PowerTrench®	QFET™ QS™ QT Optoelectronics™ Quiet Series™ SuperSOT™-3 SuperSOT™-6 SuperSOT™-6 SuperSOT™-8 SyncFET™ TinyLogic™ UHC™	VCX™
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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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.