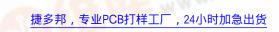
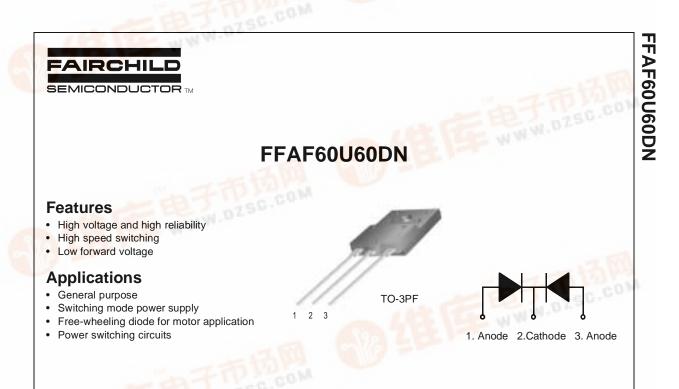
查询FFAF60U60DN供应商





ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings (per diode) 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 $@T_{C} = 100^{\circ}C$	60	A
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	360	A
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

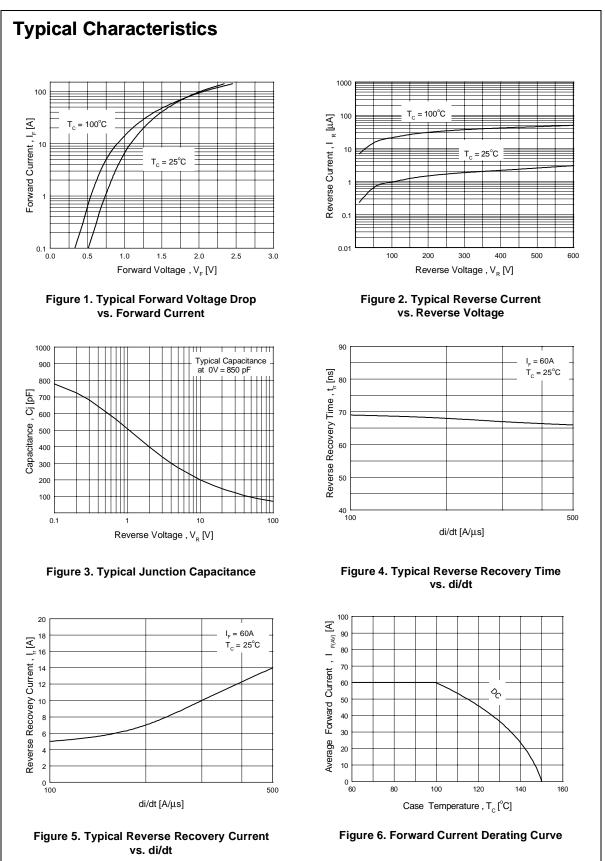
Thermal Characteristics

Symbol	Parameter	Value	Units
R _{θJC}	Maximum Thermal Resistance, Junction to Case	0.45	°C/W

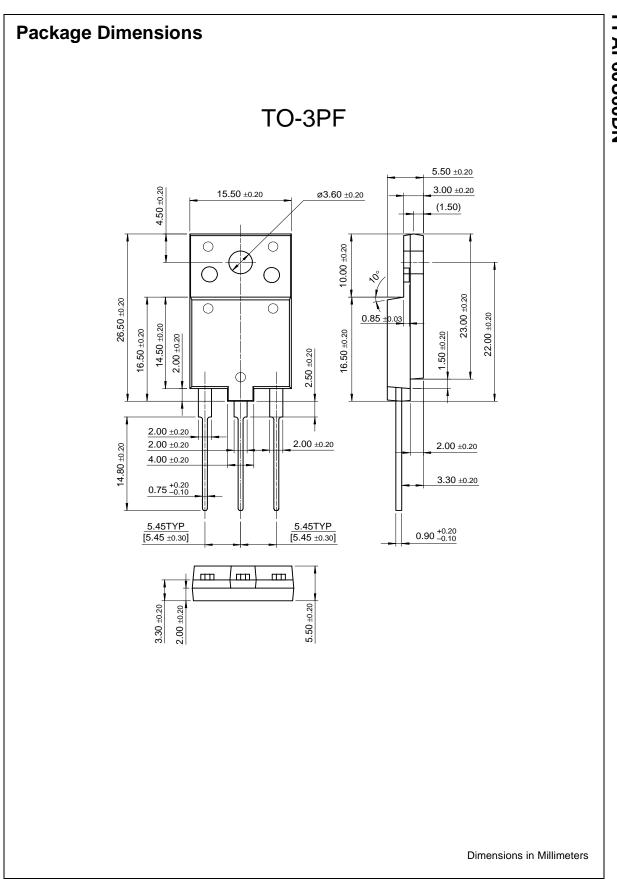
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max. 2.2 2.0	Units V
V _{FM} *	Maximum Instantaneous Forward Voltage $I_F = 60A$ $I_F = 60A$	d Voltage $T_{C} = 25 \degree C$ $T_{C} = 100 \degree C$		-		
I _{RM} *	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 100 °C	-	-	25 250	μA
t _{rr} I _{rr} Q _{rr}	$\begin{array}{c} \mbox{Maximum Reverse Recovery Time} \\ \mbox{Maximum Reverse Recovery Current} \\ \mbox{Maximum Reverse Recovery Charge} \\ (I_F = 60A, di/dt = 200A/\mu s) \end{array}$		- - -	- - -	90 9 405	ns A nC
W _{AVL}	Avalanche Energy		1.0	-	-	mJ

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



FFAF60U60DN



TRADEWIARKS			
The following are registered ar not intended to be an exhaustiv	nd unregistered trademarks Fairchild Sove list of all such trademarks.	emiconductor owns or is authorized t	o use and is
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™
FAST®	Powerirench®	UHC™	

DISCLAIMER

TRADEMARKS

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user. 2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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.
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.