

• Power switching circuits



1. Anode 2. Cathode 3. Anode

ULTRA FAST RECOVERY POWER RECTIFIER

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

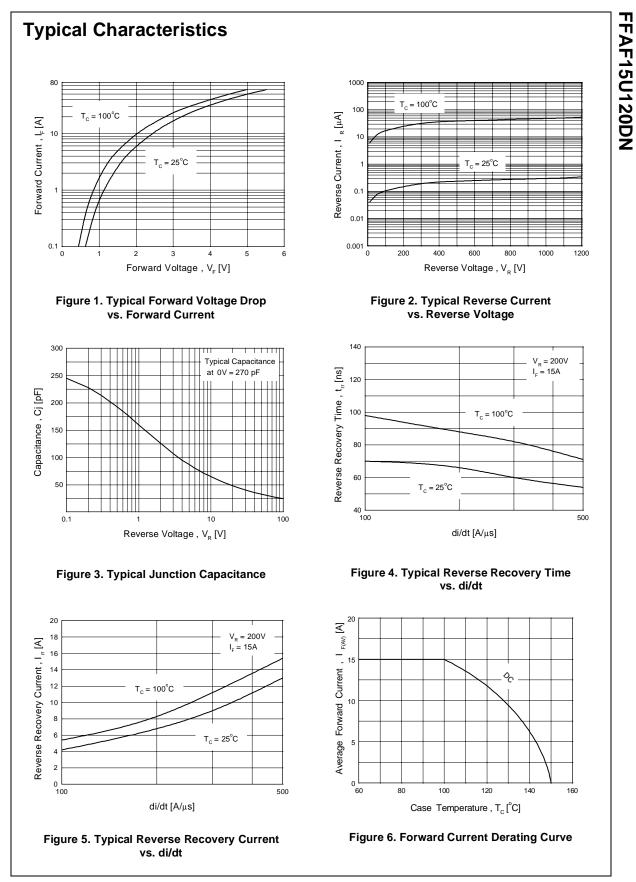
Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	1200	V
I _{F(AV)}	Average Rectified Forward Current $@ T_C = 100^{\circ}C$	15	А
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	90	A
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	1.0	°C/W

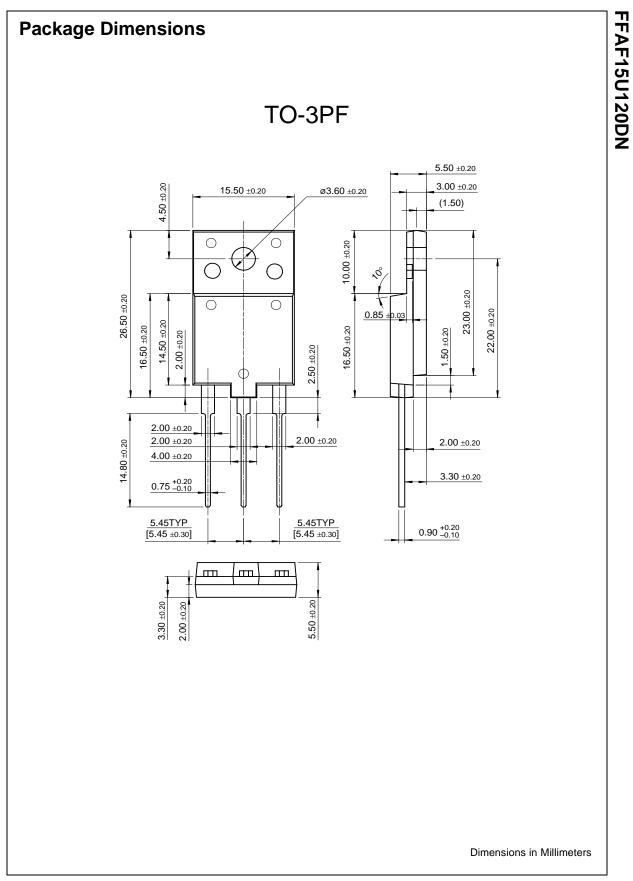
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	I _F = 15A	T _C = 25 °C	-	-	3.5	
	I _F = 15A	T _C = 25 °C T _C = 100 °C	-	-	3.2	
RM *	Maximum Instantaneous Reverse Current					
	@ rated V _R	T _C = 25 °C	-	-	15	μΑ
		T _C = 25 °C T _C = 100 °C	-	-	1	mA
rr	Maximum Reverse Recovery Time		-	-	100	ns
rr	Maximum Reverse Recovery Current		-	-	9	Α
2 ^{rr}	Maximum Reverse Recovery Charge (I _F =15A, di/dt = 200A/μs)		-	-	405	nC
W _{AVL}	Avalanche Energy		1.0	-	-	mJ



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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.
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.
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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
FFAF15U120DNTU	Full Production	\$3.46	TO-3PF	3	RAIL

* 1,000 piece Budgetary Pricing

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