

• 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

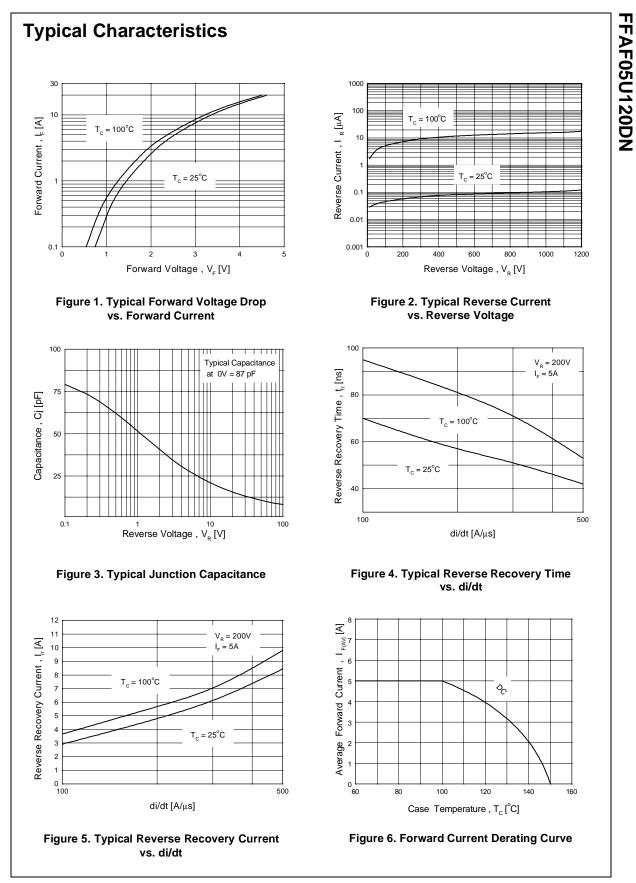
Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	1200	V
I _{F(AV)}	Average Rectified Forward Current @ T _C = 100°C	5	А
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	30	A
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	3.4	°C/W

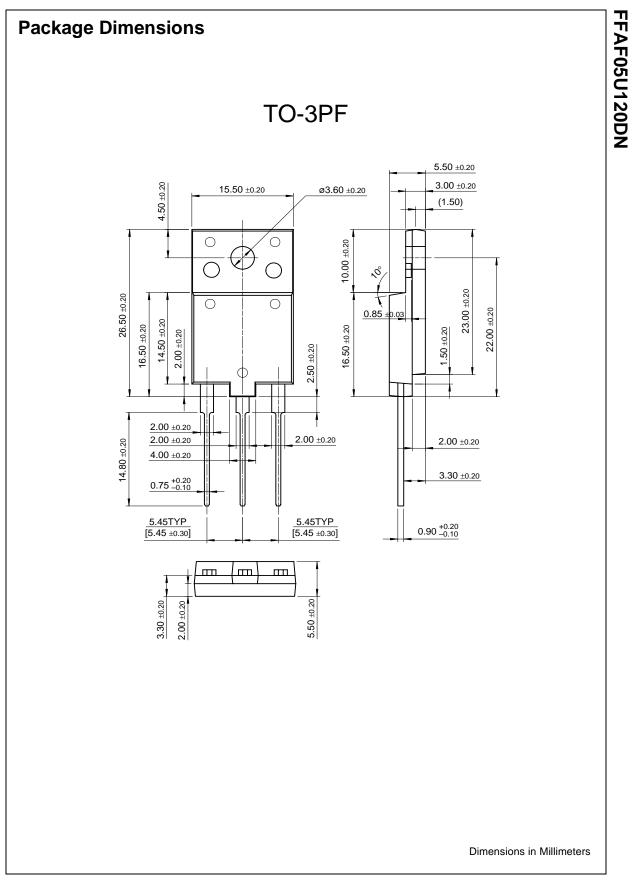
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units V
V _{FM} *	Maximum Instantaneous Forward Voltage					
	I _F = 5A	T _C = 25 °C	-	-	3.5	
	I _F = 5A	T _C = 25 °C T _C = 100 °C	-	-	3.2	
I _{RM} *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V _R	T _C = 25 °C	-	-	5	
		T _C = 25 °C T _C = 100 °C	-	-	600	
rr	Maximum Reverse Recovery Time		-	-	100	ns
rr	Maximum Reverse Recovery Current		-	-	7	Α
2 ^{rr}	Maximum Reverse Recovery Charge (I _F =5A, di/dt = 200A/µs)		-	-	280	nC
W _{AVL}	Avalanche Energy		1.0	-	-	mJ



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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.
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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
FFAF05U120DNTU	Full Production	\$1.71	TO-3PF	3	RAIL

* 1,000 piece Budgetary Pricing

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