

• Power switching circuits



## 1. Anode 2. Cathode 3. Anode

# **ULTRA FAST RECOVERY POWER RECTIFIER**

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

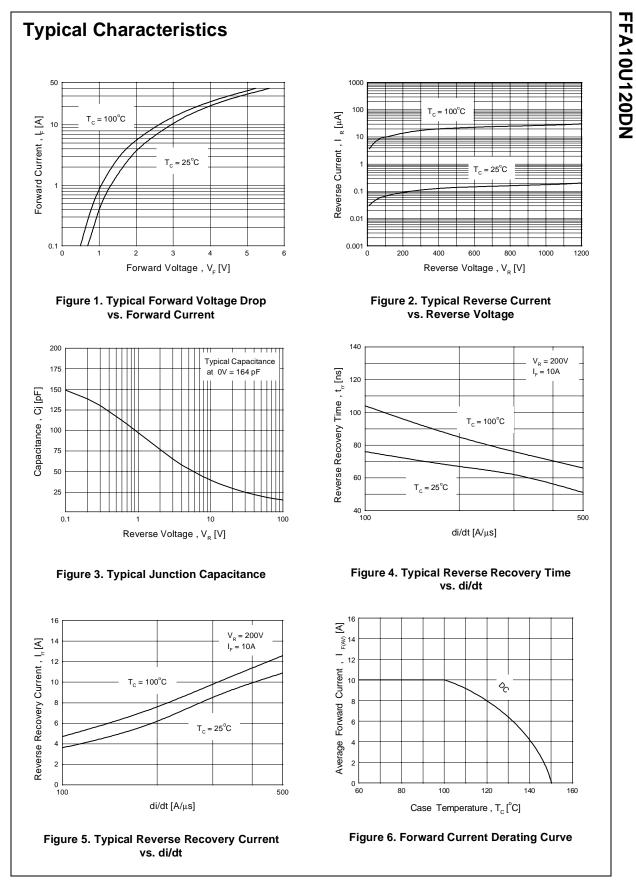
Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	1200	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>C</sub> = 100°C	10	А
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	60	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C

## **Thermal Characteristics**

Symbol	Parameter	Value	Units	
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	1.5	°C/W	

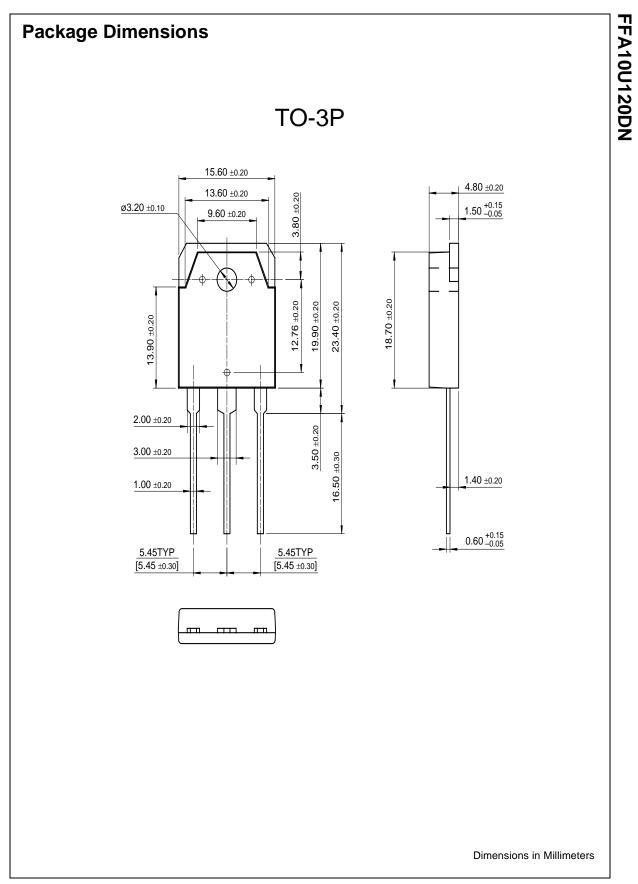
## Electrical Characteristics (per diode) T<sub>C</sub>=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage					V
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C	-	-	3.5	
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	3.2	
RM *	Maximum Instantaneous Reverse Current					μA
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	10	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	800	
rr	Maximum Reverse Recovery Time		-	-	100	ns
rr	Maximum Reverse Recovery Current		-	-	8	А
Q <sub>rr</sub>	Maximum Reverse Recovery Charge (I <sub>F</sub> =10A, di/dt = 200A/μs)		-	-	360	nC
W <sub>AVL</sub>	Avalanche Energy		1.0	-	-	mJ



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