

# 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	200	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	10	А	
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	100	A	
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C	

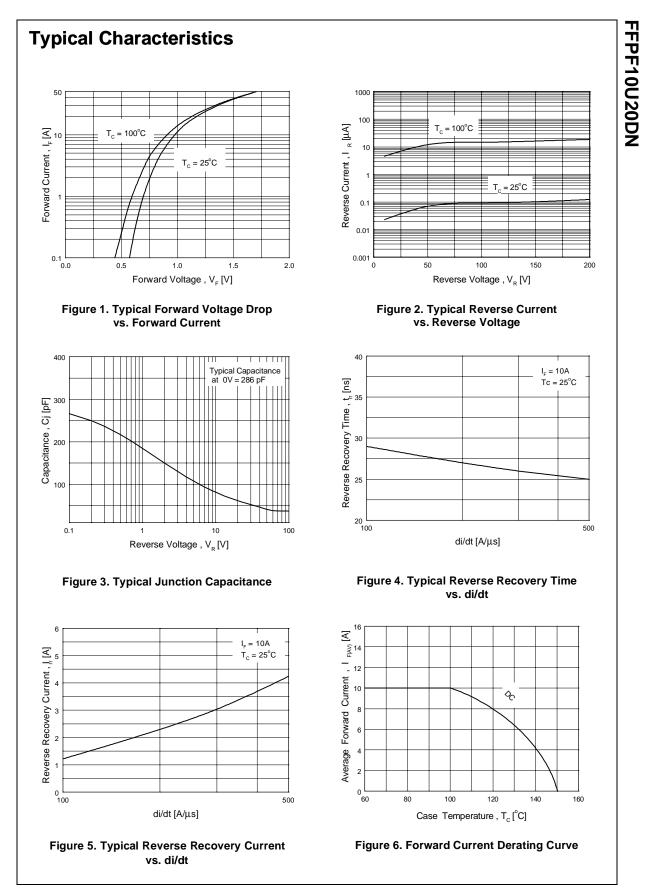
# **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	5.0	°C/W

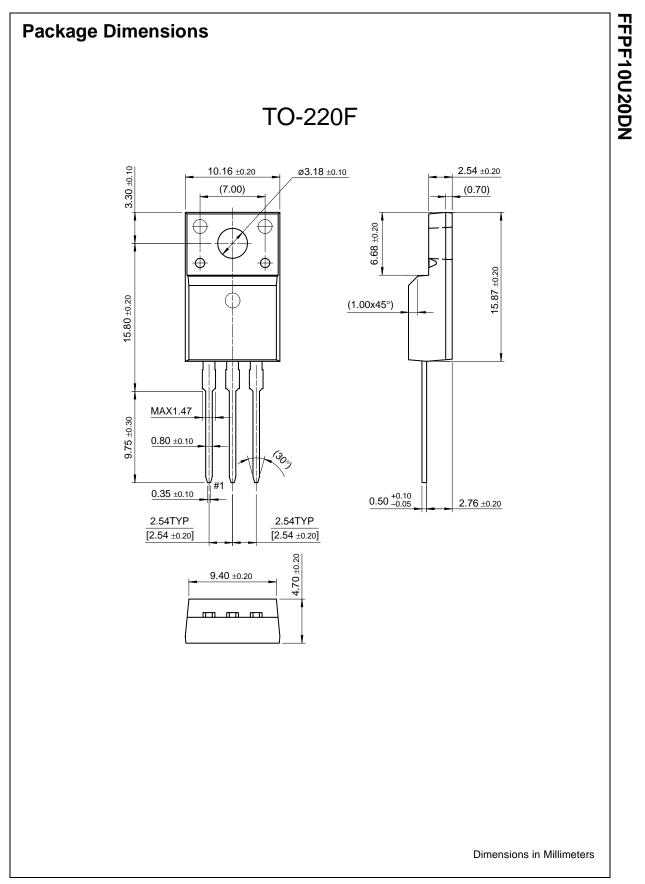
### Electrical Characteristics (per diode) T<sub>C</sub>=25 °C unless otherwise noted

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	-	-	1.2	
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	1.0	
RM *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	10	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	100	
rr	Maximum Reverse Recovery Time		-	-	35	ns
rr	Maximum Reverse Recovery Current		-	-	2.5	А
Q <sub>rr</sub>	Maximum Reverse Recovery Charge		-	-	45	nC
	(I <sub>F</sub> =10A, di/dt = 200A/µs)					
W <sub>AVL</sub>	Avalanche Energy		0.5	-	-	mJ

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



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Product status/pricing/packaging

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\* 1,000 piece Budgetary Pricing

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