

# **ULTRA FAST RECOVERY POWER RECTIFIER**

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

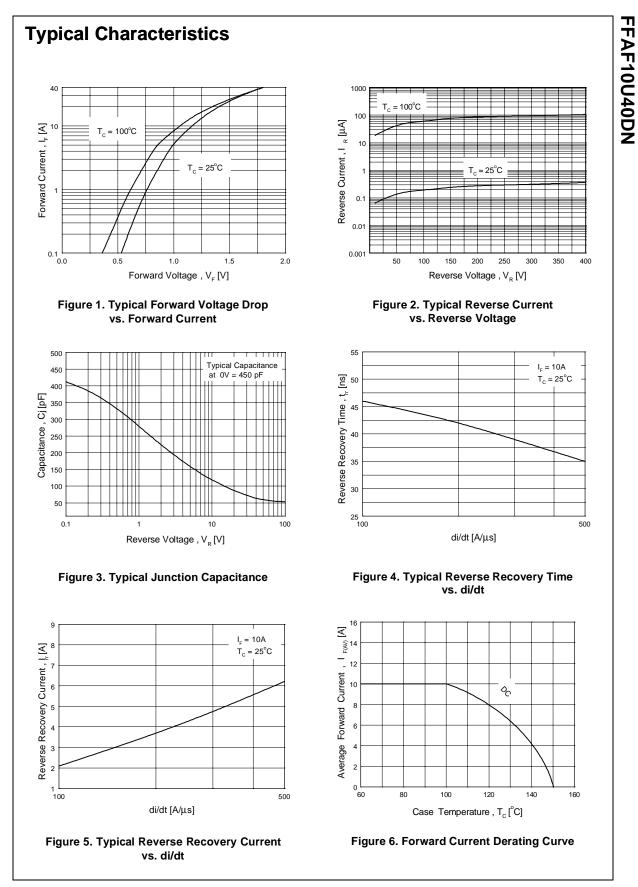
Symbol	Parameter	Value	Units	
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	400	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>C</sub> = 100°C	10	А	
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	100	A	
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C	

### **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	4.0	°C/W

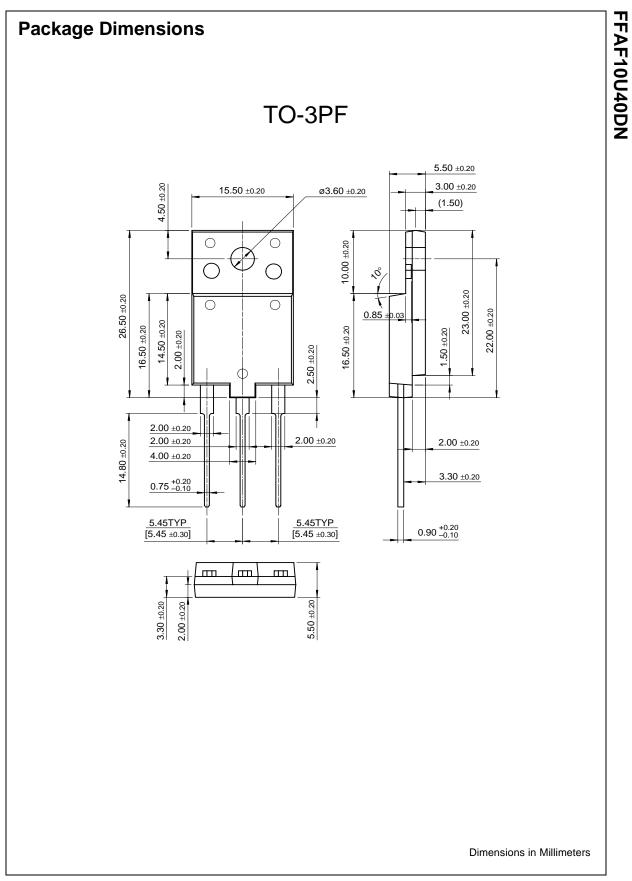
## Electrical Characteristics (per diode) T<sub>C</sub>=25 °C unless otherwise noted

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	-	-	1.4	
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	1.3	
RM *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	30	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	300	
rr	Maximum Reverse Recovery Time		-	-	50	ns
rr	Maximum Reverse Recovery Current		-	-	4.5	А
2 <sub>rr</sub>	Maximum Reverse Recovery Charge (I <sub>F</sub> =10A, di/dt = 200A/µs)		-	-	113	nC
W <sub>AVL</sub>	Avalanche Energy		1.0	-	-	mJ



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