

• Switching mode power supply

Ultrafast Recovery Power Rectifier

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

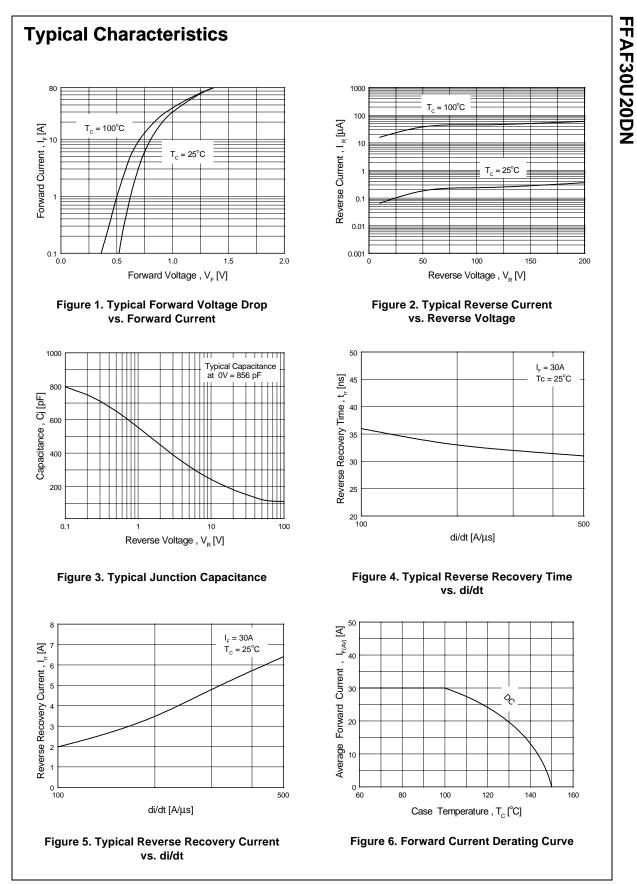
Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current @ $T_{C} = 100^{\circ}C$	30	А
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	300	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	1.6	°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 = 30A	T _C = 25 °C	-	-	1.2	
	I _F = 30A	T _C = 25 °C T _C = 100 °C	-	-	1.0	
RM *	Maximum Instantaneous Reverse Current					μA
	@ rated V _R	T _C = 25 °C	-	-	30	
		T _C = 25 °C T _C = 100 °C	-	-	300	
trr	Maximum Reverse Recovery Time		-	-	40	ns
rr	Maximum Reverse Recovery Current		-	-	4.0	А
Q _{rr}	Maximum Reverse Recovery Charge (I _F =30A, di/dt = 200A/μs)		-	-	80	nC
W _{AVL}	Avalanche Energy		0.5	-	-	mJ

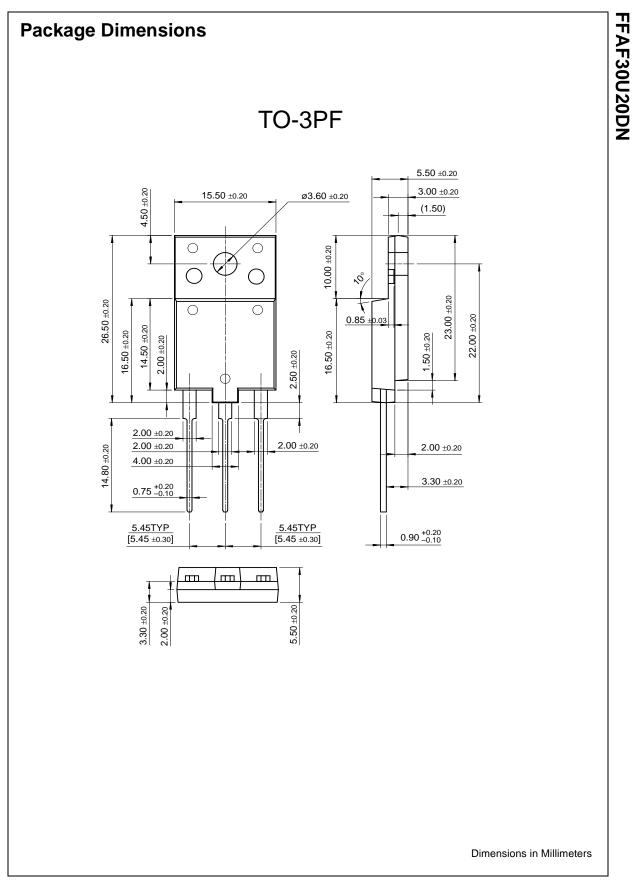


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