

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

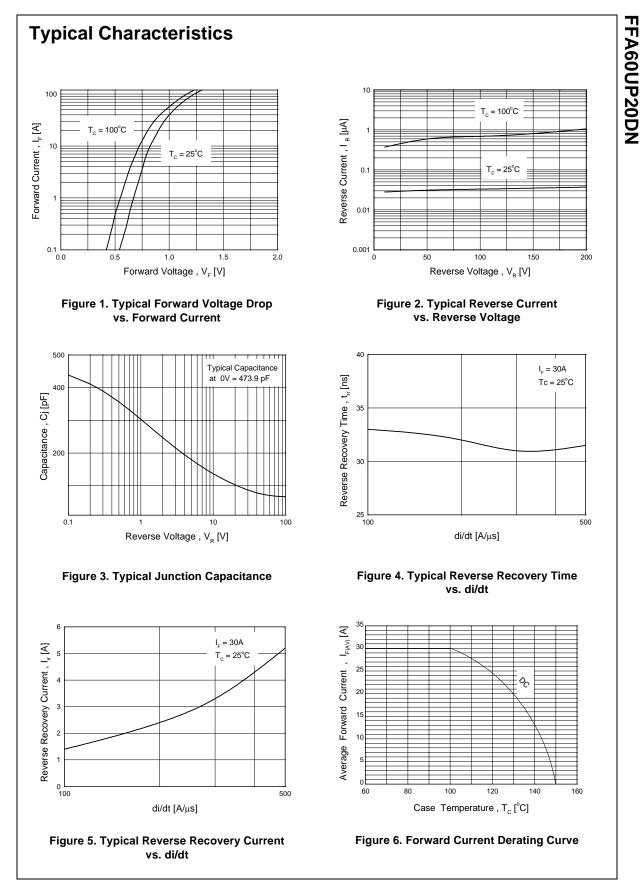
Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	1.4	°C/W

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

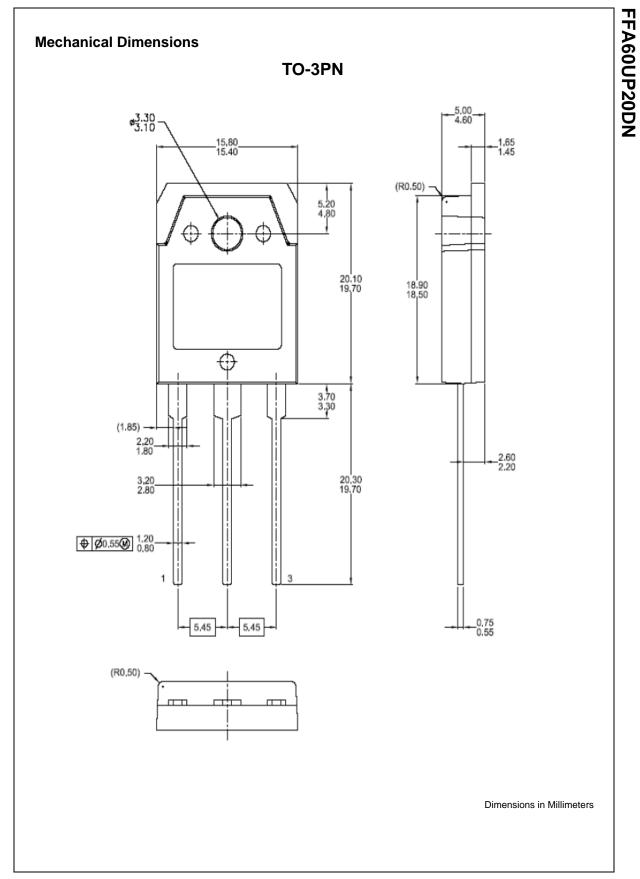
Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	I _F = 30A	T _C = 25 °C	-	-	1.15	
	I _F = 30A	T _C = 25 °C T _C = 100 °C	-	-	1.0	
I _{RM} *	Maximum Instantaneous Reverse Current					μA
	@ rated V _R	T _C = 25 °C	-	-	10	
		T _C = 25 °C T _C = 100 °C	-	-	100	
t _{rr}	Reverse Recovery Time		-	32	-	ns
	Reverse Recovery Current		-	2.4	-	А
I _{rr} Q _{rr}	Reverse Recovery Charge		-	38.4	-	nC
	(I _F =30A, di/dt = 200A/µs)					
t _{rr}	Maximum Reverse Recovery Time		-	-	40	ns
	(I _F =1A, di/dt = 100A/µs)					
W _{AVL}	Avalanche Energy (L=40mH)		2	-	-	mJ

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