

ULTRA FAST RECOVERY POWER RECTIFIER

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

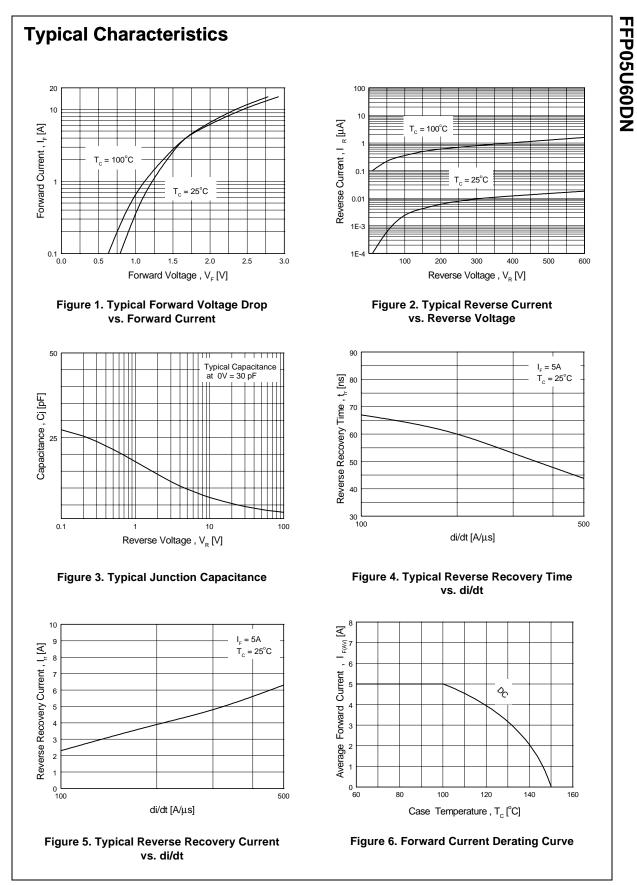
Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current @ $T_C = 100^{\circ}C$	5	A
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	30	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

Thermal Characteristics

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

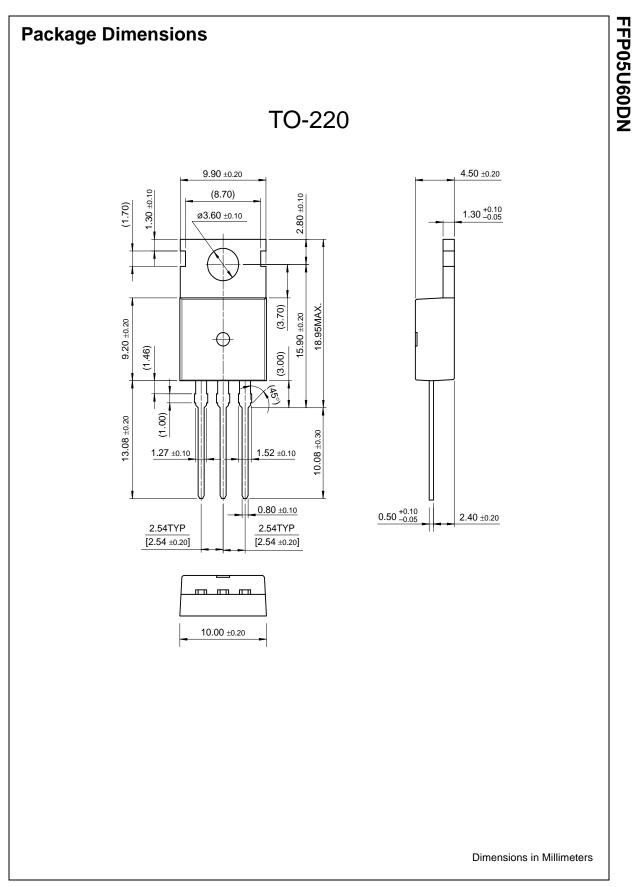
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} ∗	Maximum Instantaneous Forward Voltage					V
	I _F = 5A I _F = 5A	T _C = 25 °C T _C = 100 °C			2.3 2.2	
RM *	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 100 °C			2.5 25	μA
t _{rr} I _{rr} Q _{rr}	Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge (I _F =5A, di/dt = 200A/µs)				80 5.5 220	ns A nC
W _{AVL}	Avalanche Energy Width=300µs, Duty Cycle=2%		1.0			mJ



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Rev. F, September 2000



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