

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 @ $T_C = 100^{\circ}C$	10	A
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	60	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

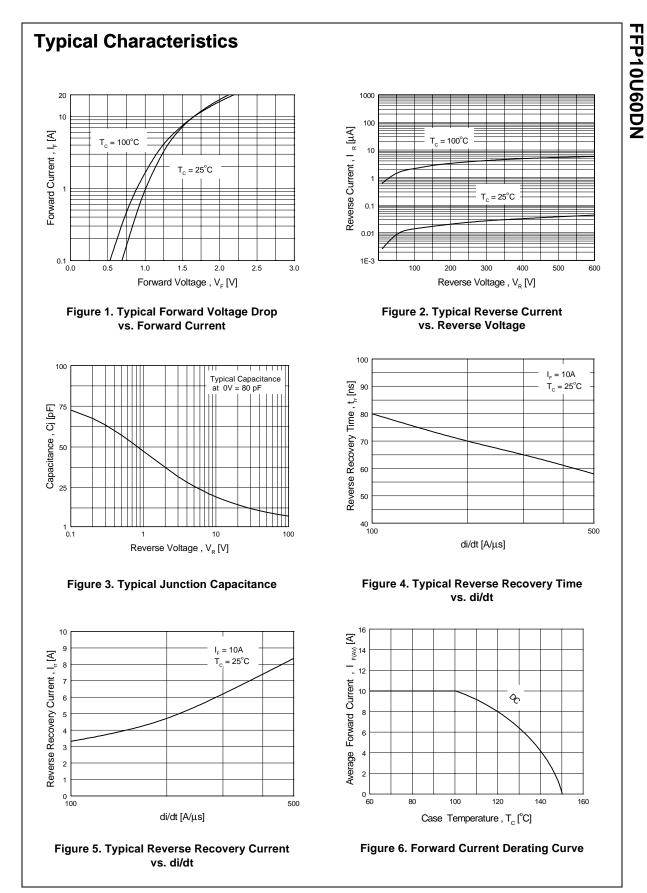
Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case	2.5	°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 = 10A I _F = 10A	T _C = 25 °C T _C = 100 °C			2.2 2.0	
RM *	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 100 °C			5 50	μA
t _{rr} I _{rr} Q _{rr}	Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge $(I_F = 10A, di/dt = 200A/\mu s)$				90 6 270	ns A nC
W _{AVL}	Avalanche Energy		1.0			mJ

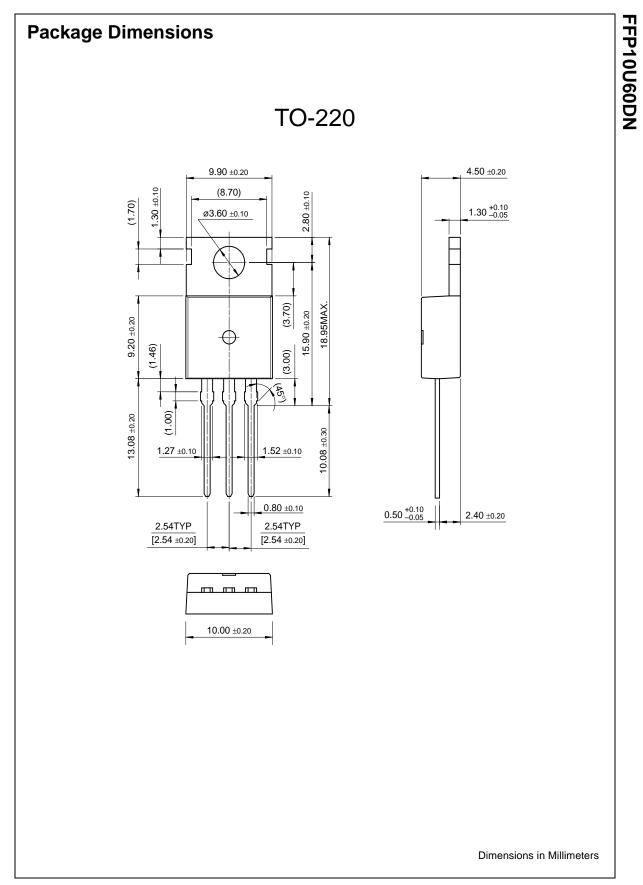
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