

ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings T_C=25°C unless otherwise noted

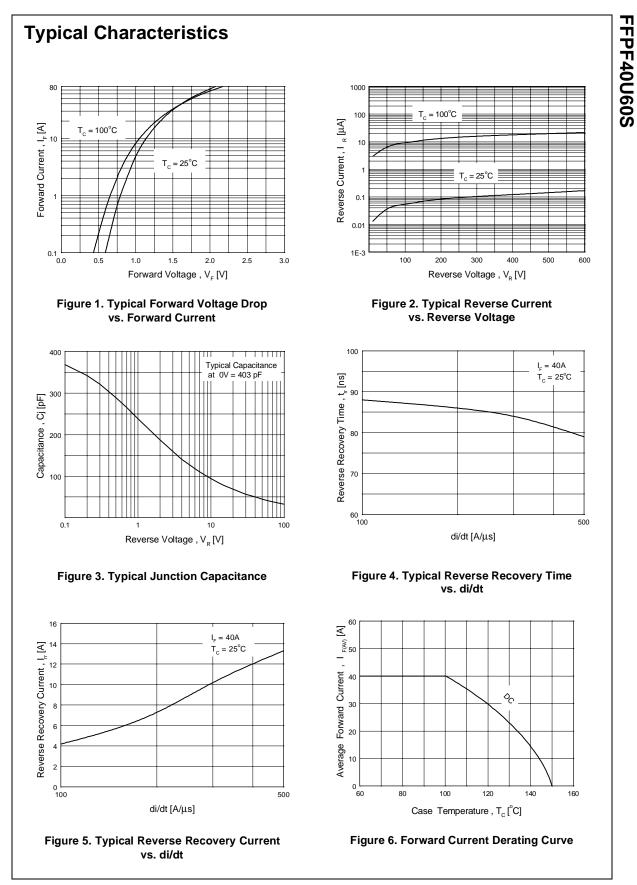
Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	40	А
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	240	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	0.7	°C/W

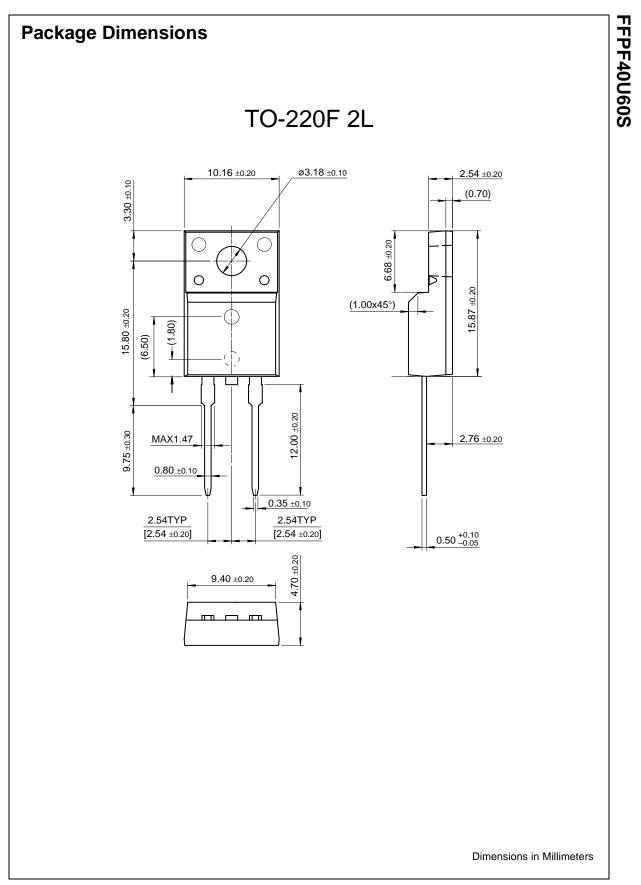
Electrical Characteristics T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.		Units V
V _{FM} *	Maximum Instantaneous Forward Voltage					
	I _F = 40A I _F = 40A	T _C = 25 °C T _C = 100 °C			2.1 1.9	
I _{RM} *	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 100 °C			20 200	μA
t _{rr} I _{rr} Q _{rr}	Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge (I _F =40A, di/dt = 200A/µs)				110 10 550	ns A nC
W _{AVL}	Avalanche Energy		1.0			mJ



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