FFPF60B150DS FFPF60B150DS FFPF60B150DS FFPF60B150DS FFPF60B150DS FFPF60B150DS FFPF60B150DS

Damper Modulation

Applications

 (Modulation + Damper) diode designed for horizontal deflection circuits in C-TVs & monitors

DAMPER + MODULATION DIODE

Absolute Maximum Ratings (Modulation) 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 @ $T_C = 100^{\circ}C$	20	А
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	120	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

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

Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	1500	V
I _{F(AV)}	Average Rectified Forward Current @ $T_C = 100^{\circ}C$	6	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	3.3	°C/W

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM}	Maximum Instantaneous Forward Voltage					V
	I _F = 20A	T _C = 25 °C T _C = 100 °C			2.2	
	I _F = 20A	T _C = 100 °C			2.0	
RM	Maximum Instantaneous Reverse Current					μΑ
	@ rated V _R	T _C = 25 °C			10	
		T _C = 25 °C T _C = 100 °C			100	
rr	Maximum Reverse Recovery Time				90	ns
rr	Maximum Reverse Recovery Current				8	А
Q _{rr}	Maximum Reverse Recovery Charge				360	nC
	(I _F =20A, di/dt = 200A/μs)					

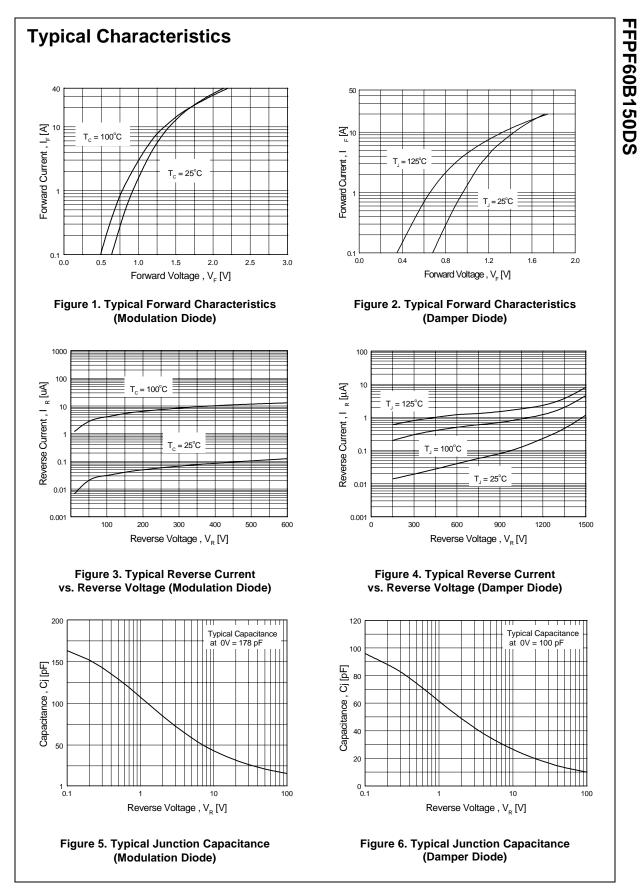
* Pulse Test: Pulse Width=300µs, Duty Cycle=2%

Electrical Characteristics*(Damper) T_C=25 °C unless otherwise noted

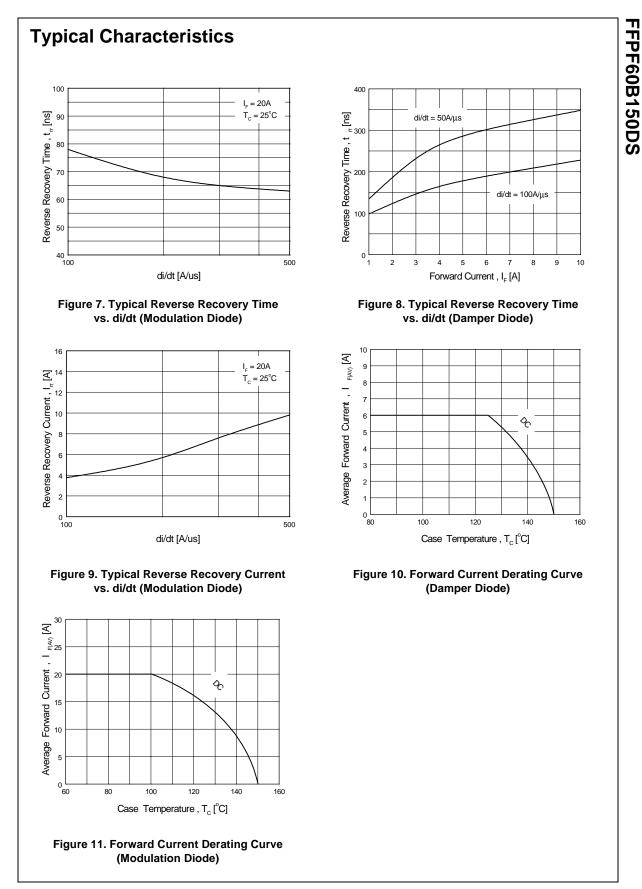
Symbol	Parameter		Min	Тур	Max	Units
V _{FM}	Maximum Instantaneous Forward Voltage					V
	I _F = 6A I _F = 6A	T _C = 25 °C T _C = 100 °C			1.6 1.4	
I _{RM}	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 100 °C			7 60	μΑ
t _{rr}	Maximum Reverse Recovery Time (I _F =1.0A, di/dt = 50A/μs)				170	ns
t _{fr}	Maximum Forward Recovery Time (I _F =6.5A, di/dt = 50A/μs)				350	ns
V _{FRM}	Maximum Forward Recovery Voltage				17	V

* Pulse Test: Pulse Width=300µs, Duty Cycle=2%

FFPF60B150DS

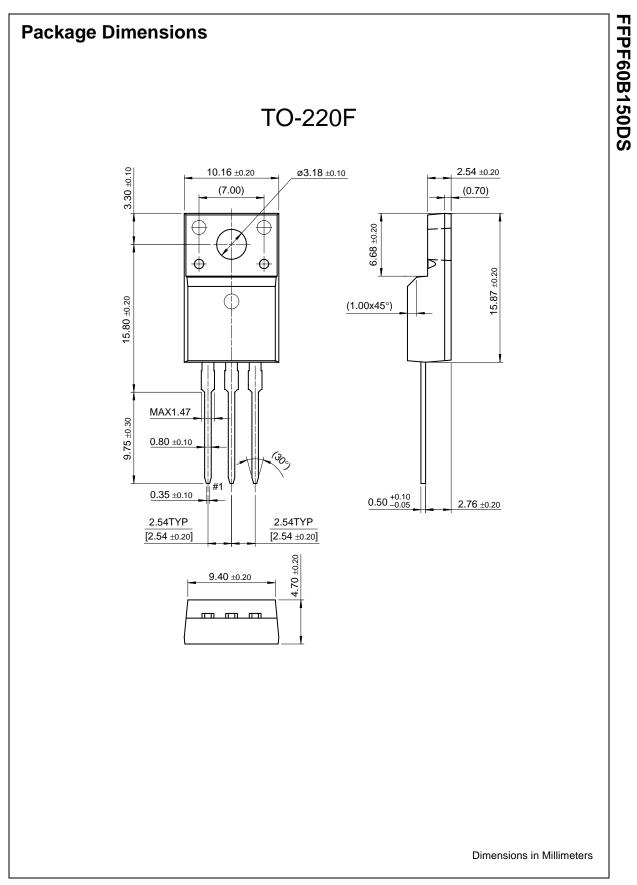


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