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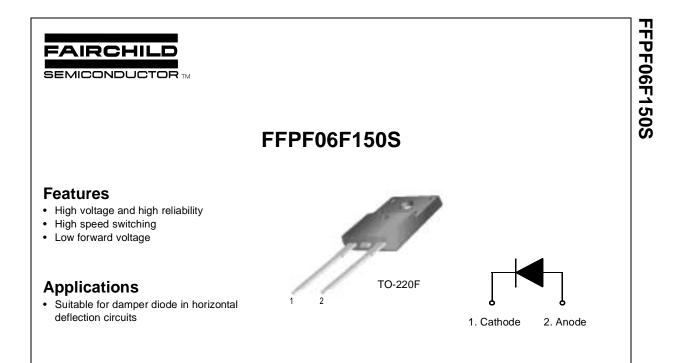


## **ON Semiconductor**®

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## DAMPER DIODE

#### Absolute Maximum Ratings Tc=25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	1500	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>C</sub> = 125°C	6	A	
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	60	A	
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C	

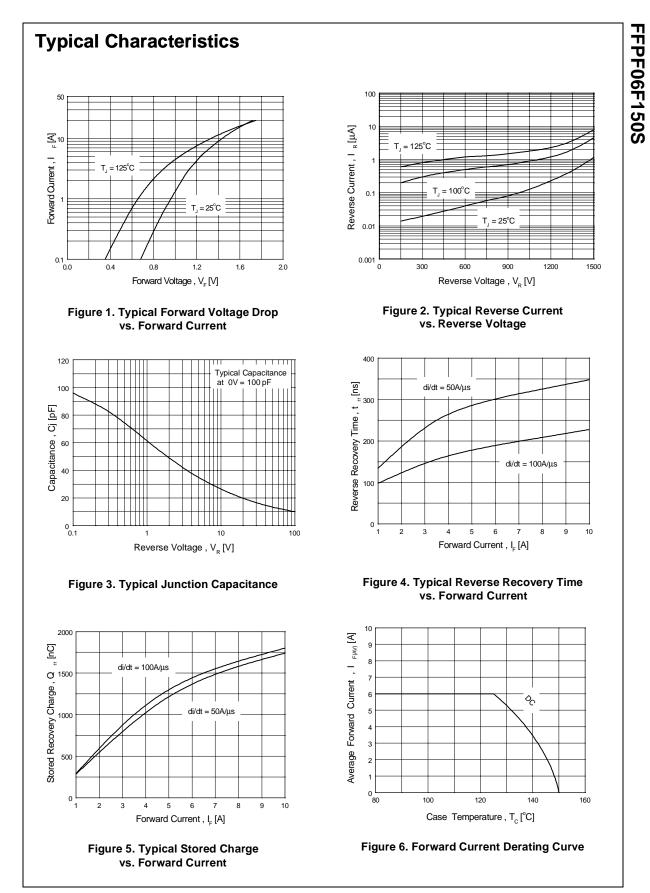
## **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	4.0	°C/W

## Electrical Characteristics Tc=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage					V
	I <sub>F</sub> = 6A	T <sub>C</sub> = 25 °C	-	-	1.6	
	I <sub>F</sub> = 6A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	-	-	1.4	
RM *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	7	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	-	-	60	
rr	Maximum Reverse Recovery Time (I <sub>F</sub> =1A, di/dt = 50A/µs)		-	-	170	ns
t <sub>fr</sub>	Maximum Forward Recovery Time (I <sub>F</sub> =6.5A, di/dt = 50A/μs)		-	-	350	ns
V <sub>FRM</sub>	Maximum Forward Recovery Voltage		-	-	17	V

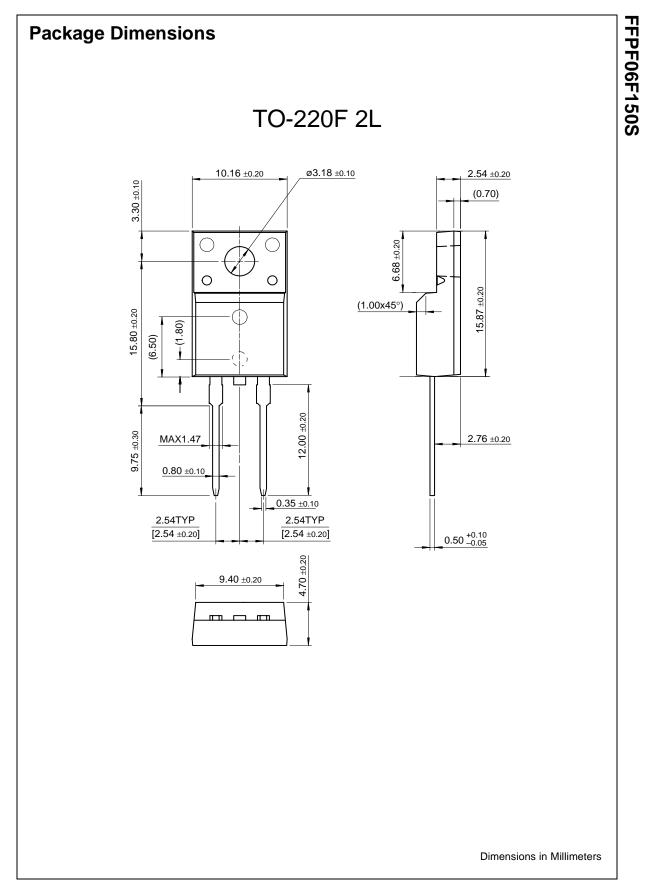
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