

# **Excellent Integrated System Limited**

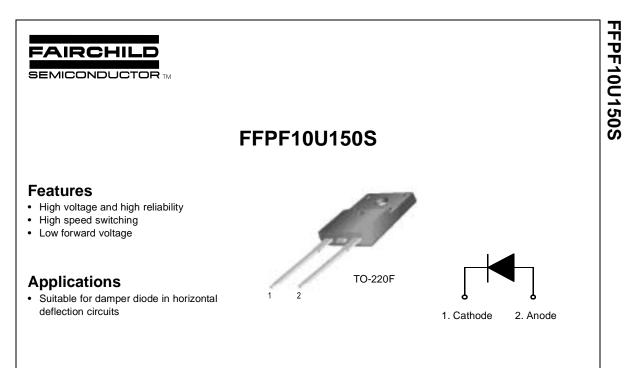
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Fairchild Semiconductor FFPF10U150STU

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





# 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 $@T_C = 125^{\circ}C$	10	А
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	100	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and StorageTemperature	- 65 to +150	°C

# **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case	2.0	°C/W

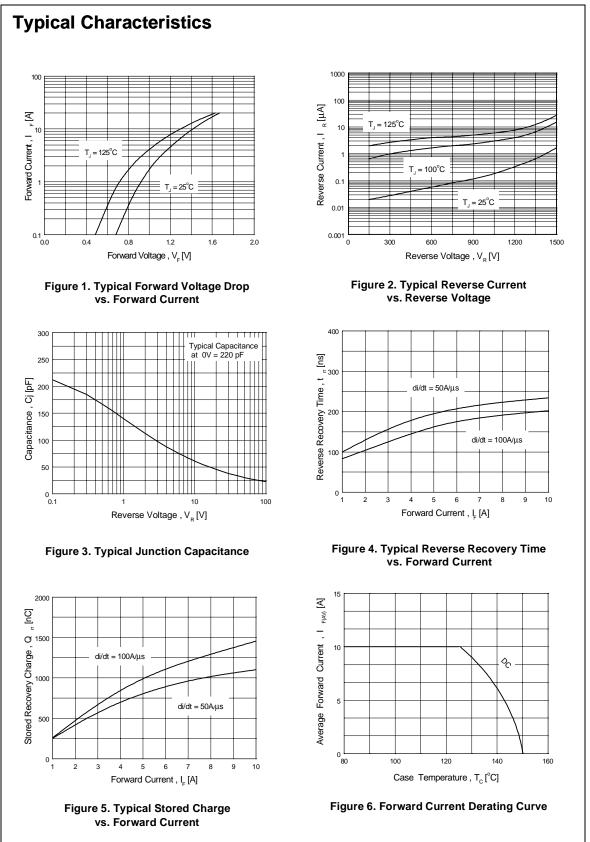
## Electrical Characteristics Tc=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage					V
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C	-	-	1.8	
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	-	-	1.7	
RM *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25  °C T <sub>C</sub> = 125 °C	-	-	15	
		T <sub>C</sub> = 125 °C	-	-	200	
rr	Maximum Reverse Recovery Time (I <sub>F</sub> =1A, di/dt = 50A/μs)		-	-	150	ns
fr	Maximum Forward Recovery Time (I <sub>F</sub> =6.5A, di/dt = 50A/µs)		-	-	300	ns
V <sub>FRM</sub>	Maximum Forward Recovery Voltage		-	-	14	V

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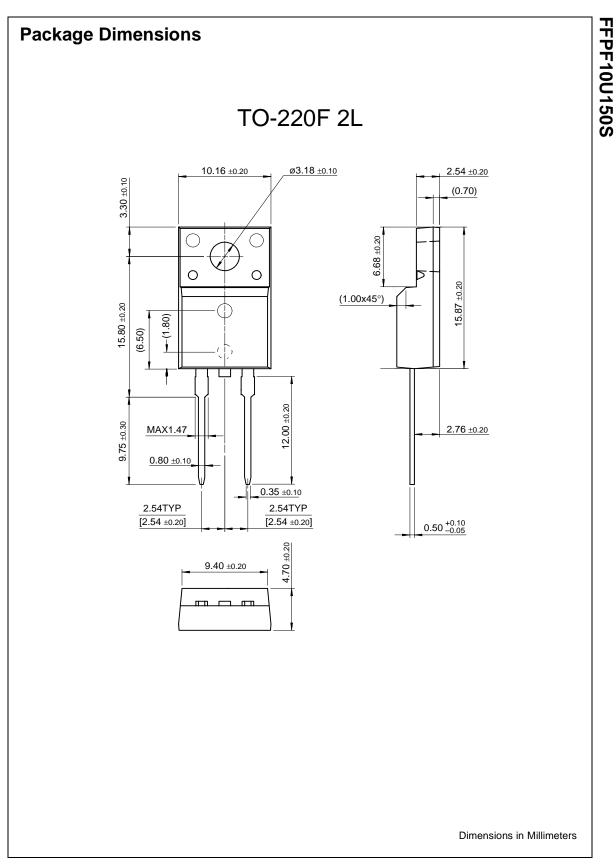
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DOME™	ISOPLANAR™	SuperSOT™-3		
E <sup>2</sup> CMOS <sup>™</sup>	MICROWIRE™	SuperSOT™-6		
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		Rev. F1