# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

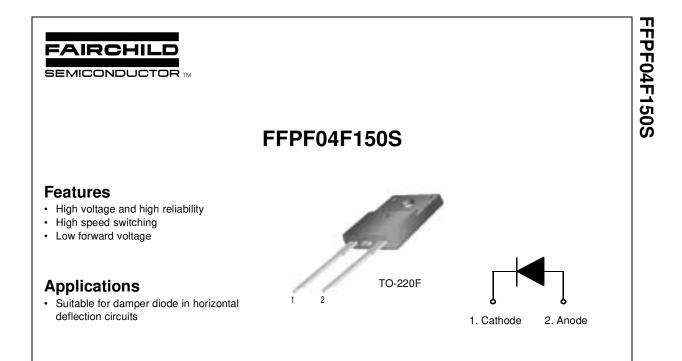
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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# DAMPER DIODE

### Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

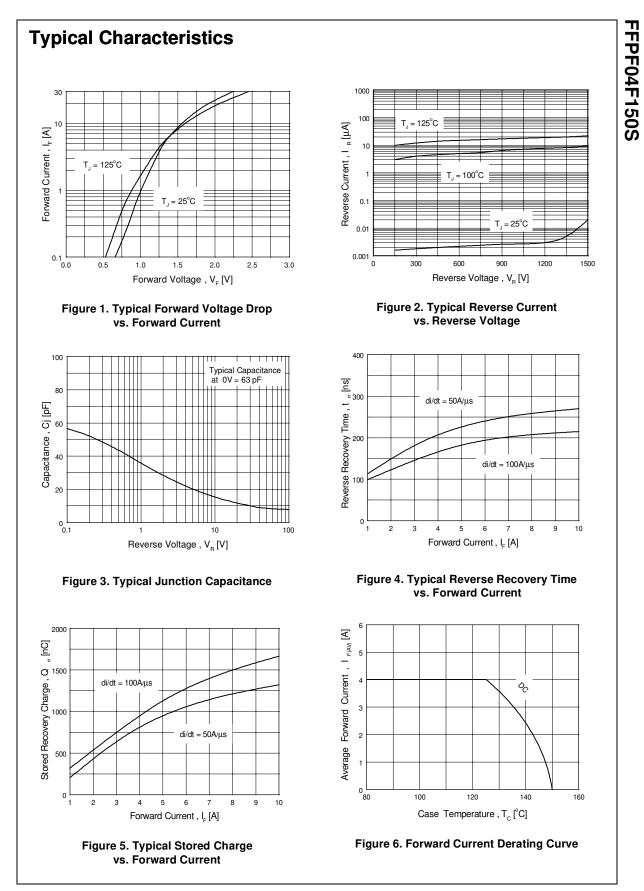
Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	1500	V
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_C = 125^{\circ}C$	4	А
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	40	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and StorageTemperature	- 65 to +150	°C

# **Thermal Characteristics**

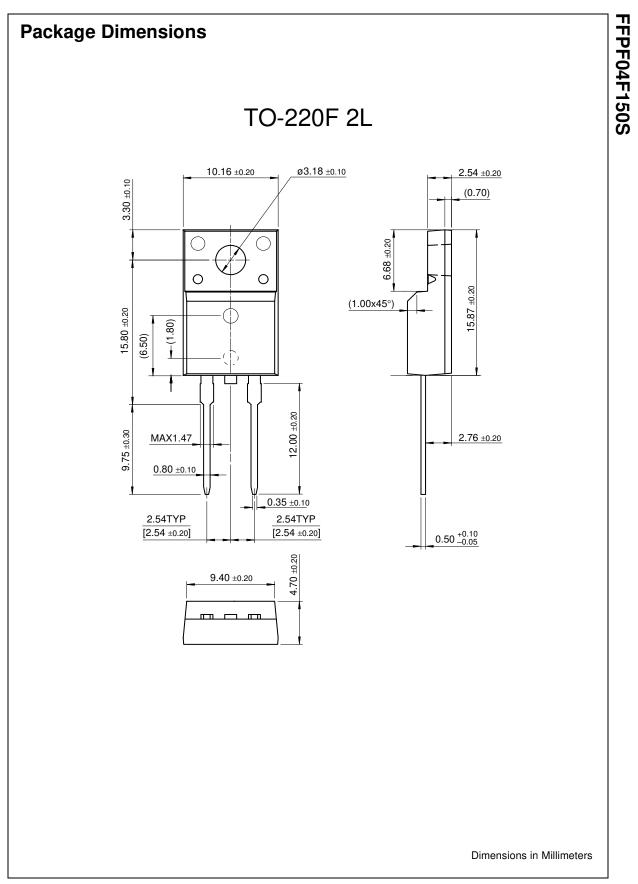
Symbol	Parameter	Value	Units	
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	5.0	°C/W	

## Electrical Characteristics T<sub>C</sub>=25 °C unless otherwise noted

Maximum Instantaneous Forward Voltage I <sub>F</sub> = 4A I <sub>F</sub> = 4A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	_			V
1	T <sub>C</sub> = 25 °C	-			V
$I_{r} - 4\Delta$		-	-	1.5	
1 - 47	T <sub>C</sub> = 125 °C	-	-	1.4	
Maximum Instantaneous Reverse Current					μA
@ rated V <sub>B</sub>	T <sub>C</sub> = 25 °C	-	-	5	
	T <sub>C</sub> = 125 °C	-	-	250	
Maximum Reverse Recovery Time		-	-	170	ns
		-	-	450	ns
Maximum Forward Recovery Voltage		-	-	19	V
	@ rated $V_R$ Maximum Reverse Recovery Time (I <sub>F</sub> =1A, di/dt = 50A/ $\mu$ s) Maximum Forward Recovery Time (I <sub>F</sub> =6.5A, di/dt = 50A/ $\mu$ s)		$\begin{tabular}{ c c c c c } \hline @ \ rated $V_R$ & $T_C = 25 \ ^{\circ}C$ \\ $T_C = 125 \ ^{\circ}C$ & - $$\\ \hline $T_C = 125 \ ^{\circ}C$ & - $$\\ \hline $I_C = 125 \ ^{\circ}C$ & - $$\\ \hline $I_F = 1A, \ di/dt = 50A/\mu s)$ & $$\\ \hline $Maximum Forward Recovery Time$ & $$\\ \hline $I_F = 6.5A, \ di/dt = 50A/\mu s)$ & $$\\ \hline $Maximum Forward Recovery Voltage$ & $$- $$\\ \hline $Maximum Forward Recovery Voltage$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$- $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $\\ \hline $I_C = 125 \ ^{\circ}C$ & $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $$\\ \hline $I_C = 125 \ ^{\circ}C$ & $\\ \hline $I_C = 125 \$		



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VCX™

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