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Fairchild Semiconductor FFPF14X150STU

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FFPF14X150S

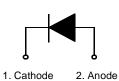
Features

- High voltage and high reliability
- High speed switching
- Low forward voltage

Applications

• Suitable for damper diode in horizontal deflection circuits





DAMPER DIODE

Absolute Maximum Ratings 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 = 125°C	14	Α
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	140	А
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

Thermal Characteristics

Symbol		Parameter	Value	Units	
	Reic	Maximum Thermal Resistance, Junction to Case	1.5	°C/W	

Electrical Characteristics T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	I _F = 14A	T _C = 25 °C	-	-	2.4	
	I _F = 14A	T _C = 25 °C T _C = 125 °C	-	-	2.1	
I _{RM} *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V _R	T _C = 25 °C T _C = 125 °C	-	-	20	
		T _C = 125 °C	-	-	300	
t _{rr}	Maximum Reverse Recovery Time (I _F =1A, di/dt = 50A/μs)		-	-	120	ns
t _{fr}	Maximum Forward Recovery Time (I _F =6.5A, di/dt = 50A/μs)		-	-	290	ns
V_{FRM}	Maximum Forward Recovery Voltage		-	-	13	V

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





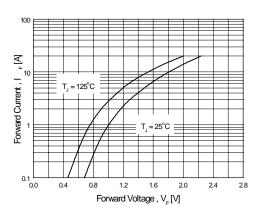


Figure 1. Typical Forward Voltage Drop vs. Forward Current

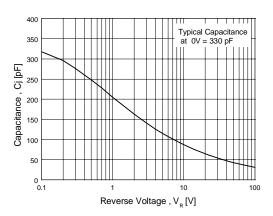


Figure 3. Typical Junction Capacitance

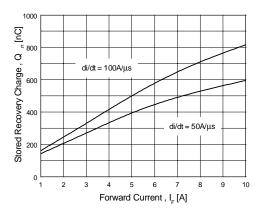


Figure 5. Typical Stored Charge vs. Forward Current

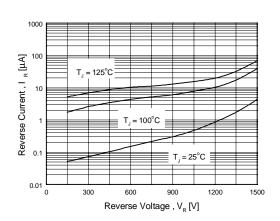


Figure 2. Typical Reverse Current vs. Reverse Voltage

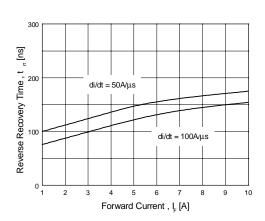


Figure 4. Typical Reverse Recovery Time vs. Forward Current

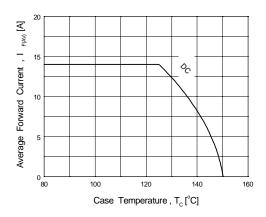


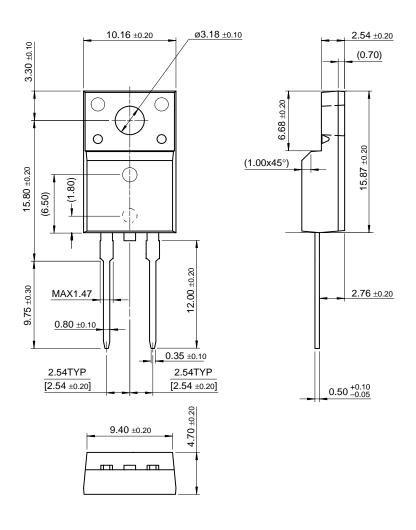
Figure 6. Forward Current Derating Curve

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Package Dimensions

TO-220F 2L



Dimensions in Millimeters

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