

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: FFPF06F150STU
Manufacturer: onsemi
Package: TO-220-2 Full Pack
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/onsemi/ffpf06f150stu.html>

Request a Quote:

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

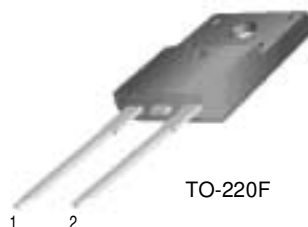
FFPF06F150S

Features

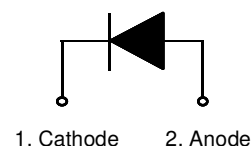
- High voltage and high reliability
- High speed switching
- Low forward voltage

Applications

- Suitable for damper diode in horizontal deflection circuits



TO-220F



DAMPER DIODE

Absolute Maximum Ratings $T_C=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Peak Repetitive Reverse Voltage	1500	V
$I_{F(AV)}$	Average Rectified Forward Current @ $T_C = 125^\circ\text{C}$	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	$^\circ\text{C}$

Thermal Characteristics

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

Electrical Characteristics $T_C=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Min.	Typ.	Max.	Units
V_{FM}^*	Maximum Instantaneous Forward Voltage				V
	$I_F = 6\text{A}$			1.6	
	$T_C = 25^\circ\text{C}$	-	-		
I_{RM}^*	Maximum Instantaneous Reverse Current				μA
	@ rated V_R			7	
	$T_C = 25^\circ\text{C}$	-	-	60	
t_{rr}	Maximum Reverse Recovery Time ($I_F = 1\text{A}$, $di/dt = 50\text{A}/\mu\text{s}$)	-	-	170	ns
t_{fr}	Maximum Forward Recovery Time ($I_F = 6.5\text{A}$, $di/dt = 50\text{A}/\mu\text{s}$)	-	-	350	ns
V_{FRM}	Maximum Forward Recovery Voltage	-	-	17	V

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

Typical Characteristics

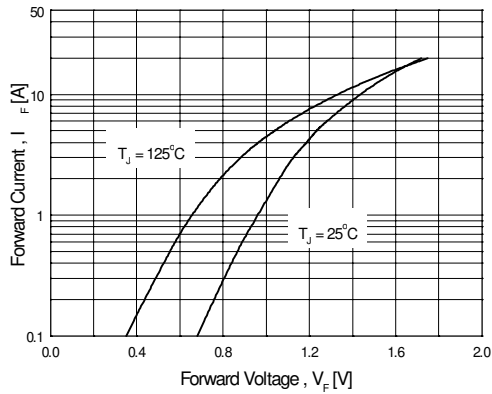


Figure 1. Typical Forward Voltage Drop vs. Forward Current

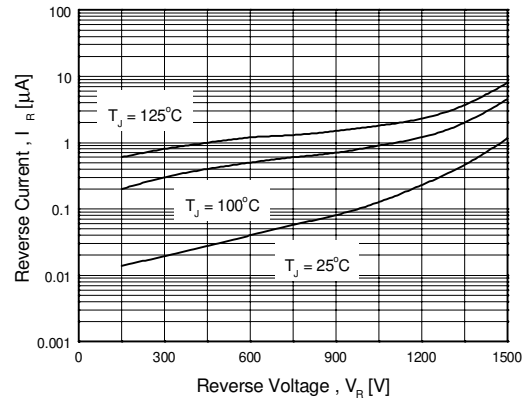


Figure 2. Typical Reverse Current vs. Reverse Voltage

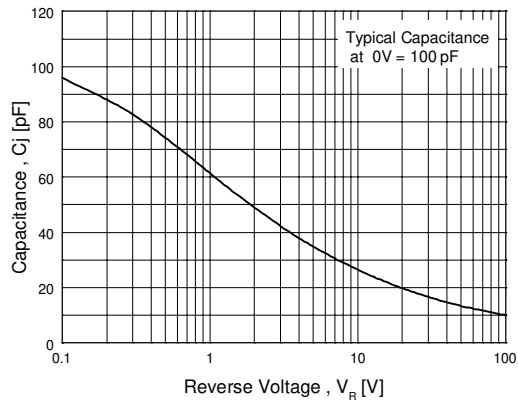


Figure 3. Typical Junction Capacitance

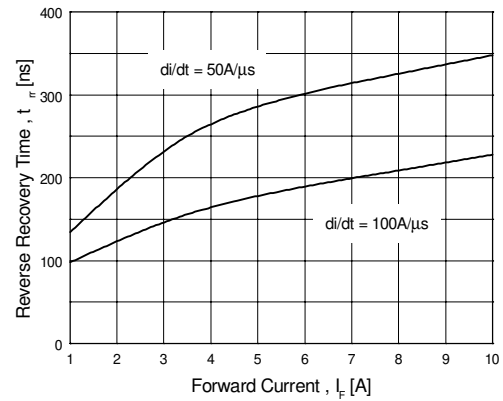


Figure 4. Typical Reverse Recovery Time vs. Forward Current

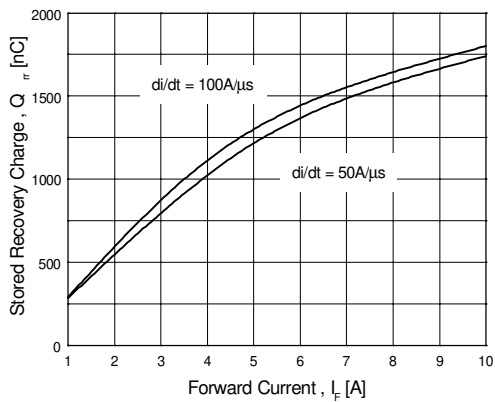


Figure 5. Typical Stored Charge vs. Forward Current

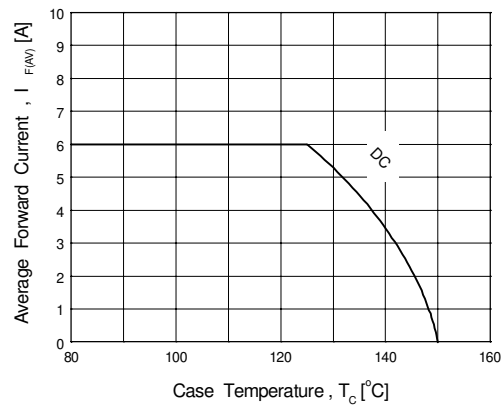
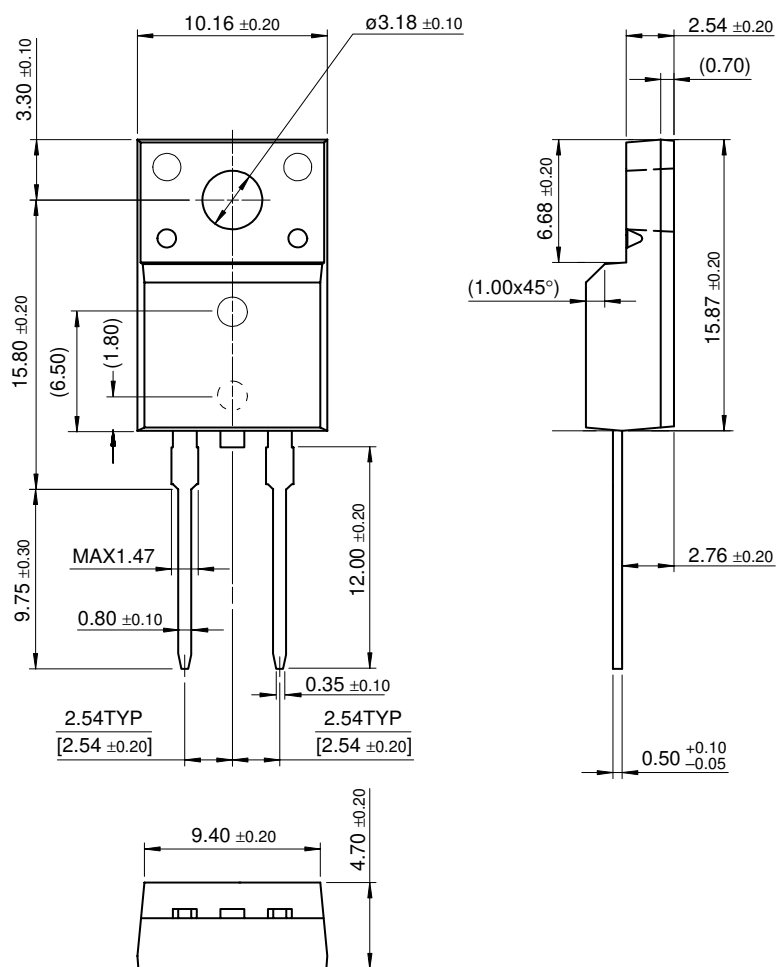


Figure 6. Forward Current Derating Curve

Package Dimensions

TO-220F 2L

FFPF06F150S



Dimensions in Millimeters

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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