

Excellent Integrated System Limited

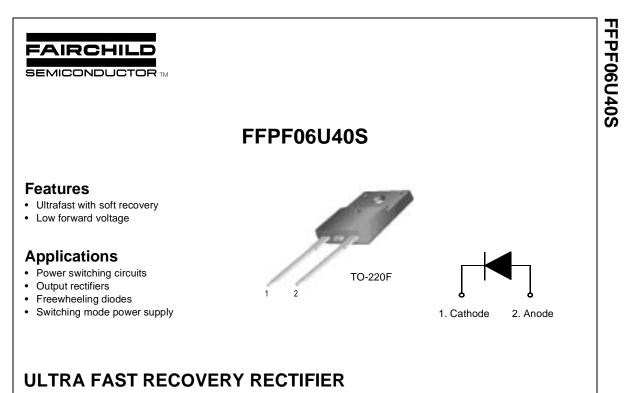
Stocking Distributor

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Fairchild Semiconductor FFPF06U40STU

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





Absolute Maximum Ratings Tc=25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{RRM}	Peak Repetitive Reverse Voltage	400	V	
I _{F(AV)}	Average Rectified Forward Current @ T _C = 100°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	°C	

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case	7.0	°C/W

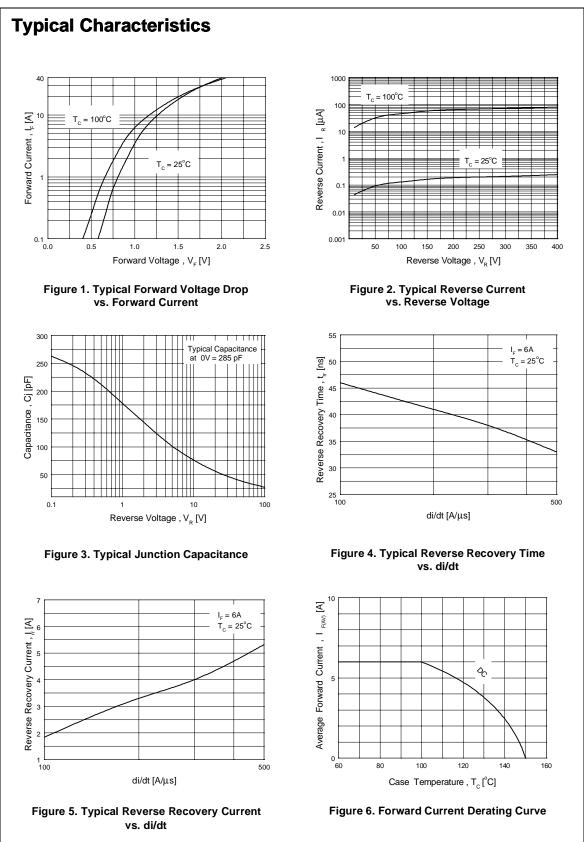
Electrical Characteristics Tc=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	I _F = 6A	T _C = 25 °C	-	-	1.4	
	$I_F = 6A$	T _C = 25 °C T _C = 100 °C	-	-	1.3	
RM *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V _R	T _C = 25 °C	-	-	20	
		T _C = 25 °C T _C = 100 °C	-	-	200	
rr	Maximum Reverse Recovery Time		-	-	50	ns
rr	Maximum Reverse Recovery Current		-	-	4.0	А
Q _{rr}	Maximum Reverse Recovery Charge		-	-	100	nC
	(I _F =6A, di/dt = 200A/µs)					
W _{AVL}	Avalanche Energy		1.0	-	-	mJ

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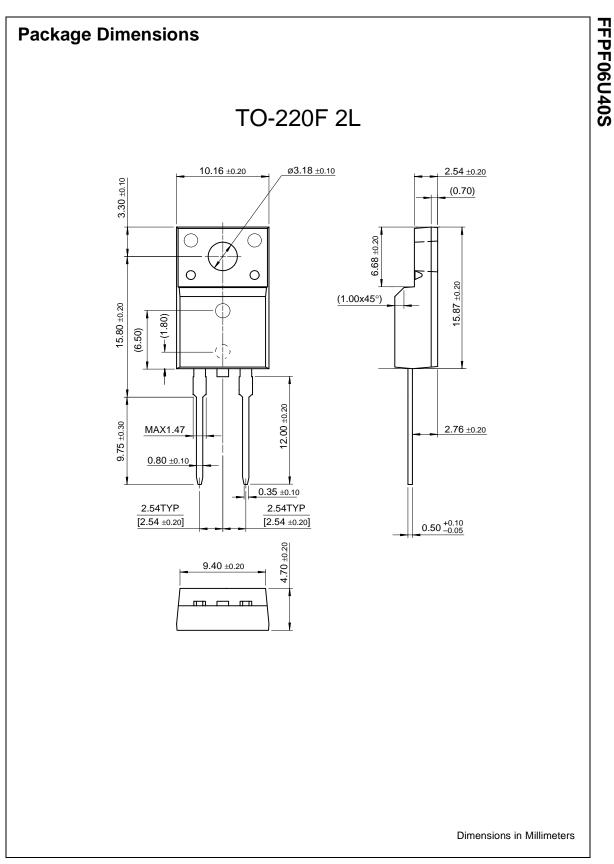
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