

Excellent Integrated System Limited

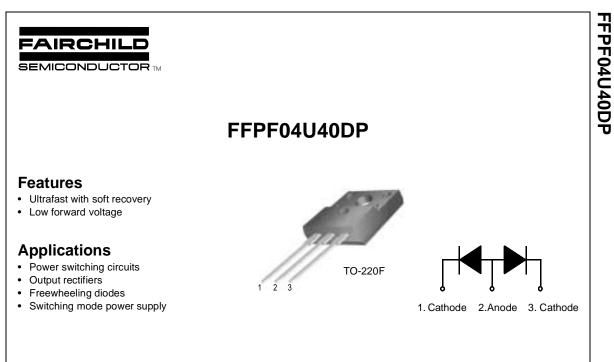
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Fairchild Semiconductor FFPF04U40DPTU

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





ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings (per diode) T_C=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	4	A
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	40	A
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	10	°C/W

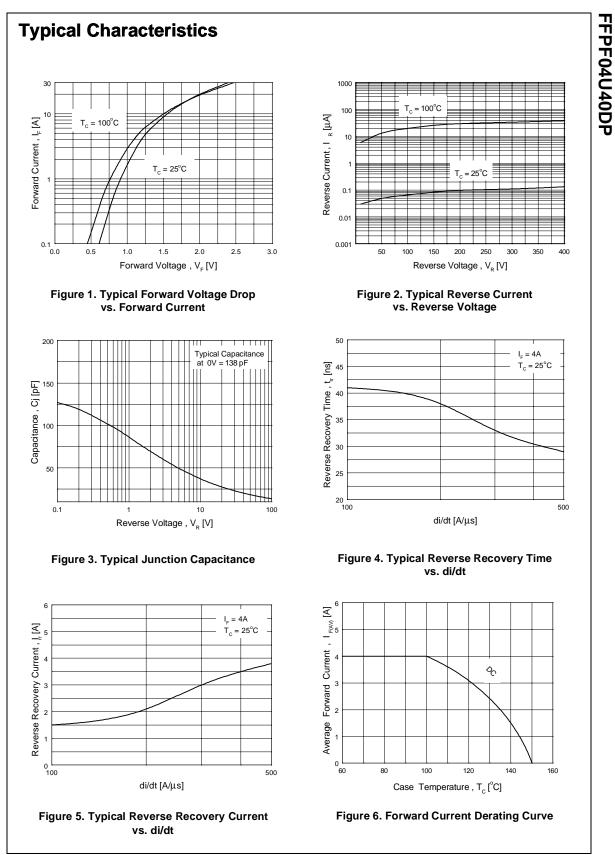
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	I _F = 4A	T _C = 25 °C	-	-	1.4	
	$I_F = 4A$	T _C = 25 °C T _C = 100 °C	-	-	1.3	
RM *	Maximum Instantaneous Reverse Current					μA
	@ rated V _R	T _C = 25 °C	-	-	10	
		T _C = 25 °C T _C = 100 °C	-	-	100	
t _{rr}	Maximum Reverse Recovery Time		-	-	45	ns
I _{rr}	Maximum Reverse Recovery Current		-	-	3.0	А
Q _{rr}	Maximum Reverse Recovery Charge		-	-	68	nC
	(I _F =4A, di/dt = 200A/µs)					
W _{AVL}	Avalanche Energy		1.0	-	-	mJ

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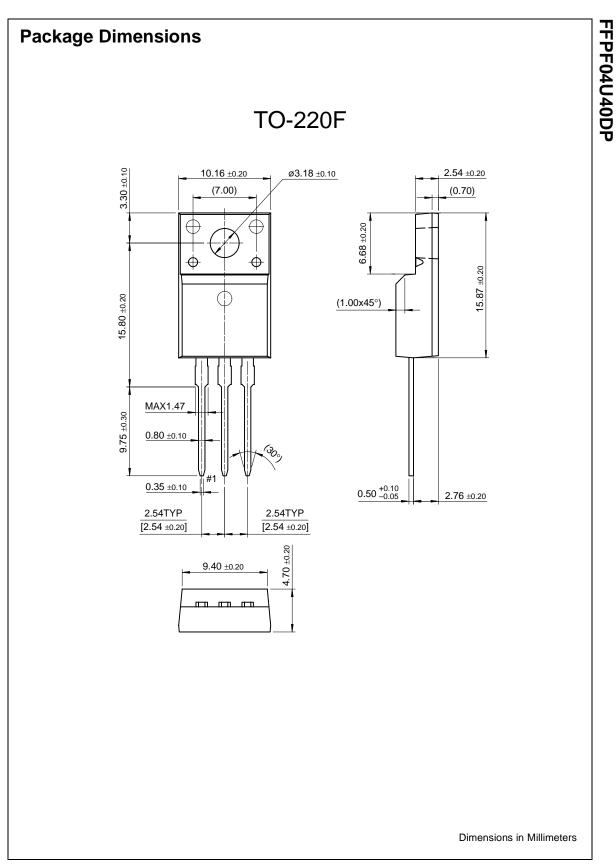


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