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.

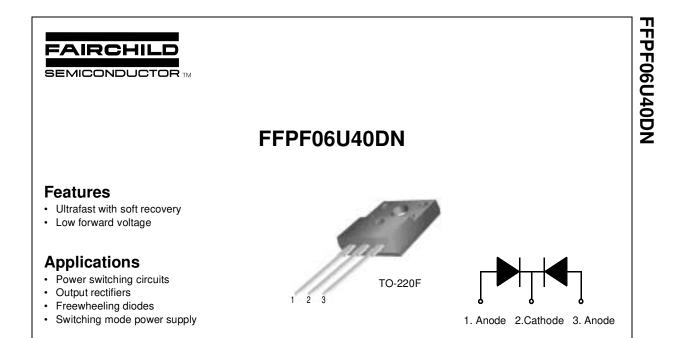
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings (per diode) T_C=25°C unless otherwise noted

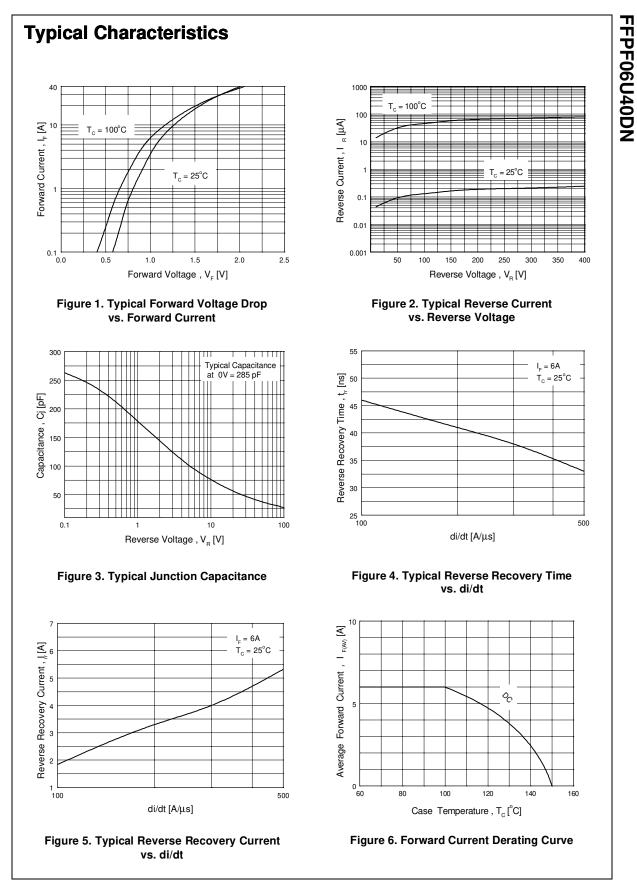
Symbol	Parameter	Value	Units	
V _{RRM}	Peak Repetitive Reverse Voltage	400	V	
I _{F(AV)}	Average Rectified Forward Current @T _C = 100°C	6	Α	
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	60	A	
T _{J,} T _{STG}	Operating Junction and StorageTemperature	- 65 to +150	°C	

Thermal Characteristics

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

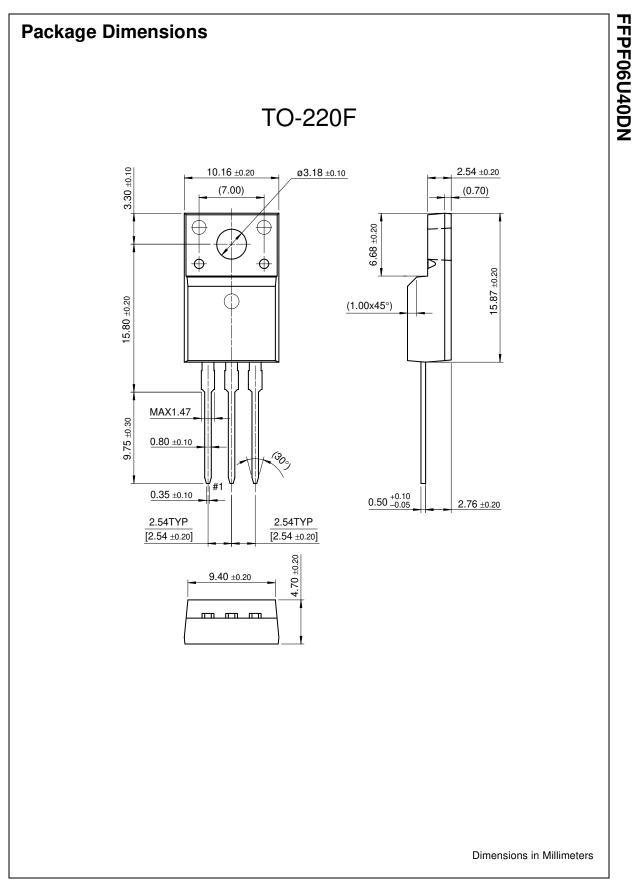
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	I _F = 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					μA
	@ rated V _B	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	Α
Q _{rr}	Maximum Reverse Recovery Charge $(I_F = 6A, di/dt = 200A/\mu s)$		-	-	100	nC
W _{AVL}	Avalanche Energy		1.0	-	-	mJ



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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