# 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.

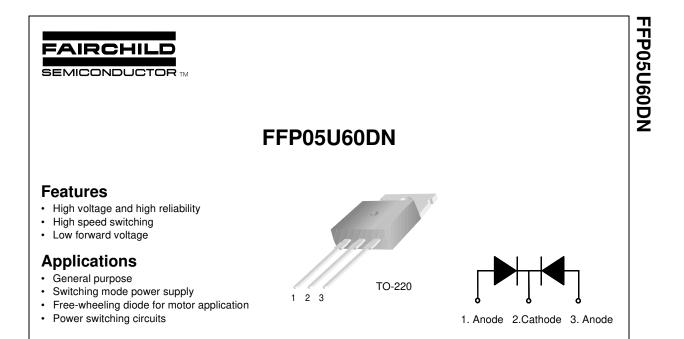
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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### **ULTRA FAST RECOVERY POWER RECTIFIER**

#### Absolute Maximum Ratings (per diode) T<sub>C</sub>=25°C unless otherwise noted

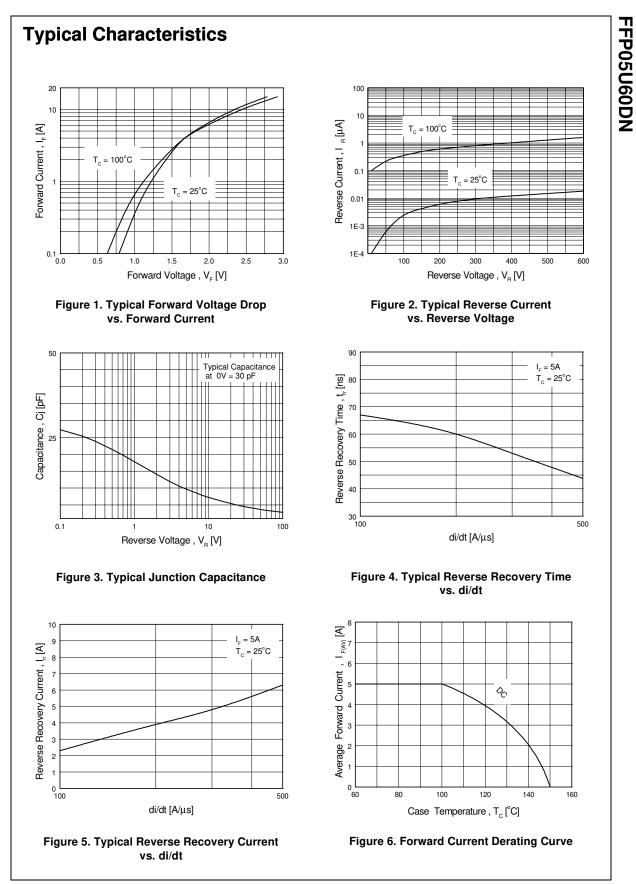
Symbol	Parameter	Value	Units	
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	600	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current @ $T_C = 100^{\circ}C$	5	А	
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	30	A	
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C	

#### **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	5.0	°C/W

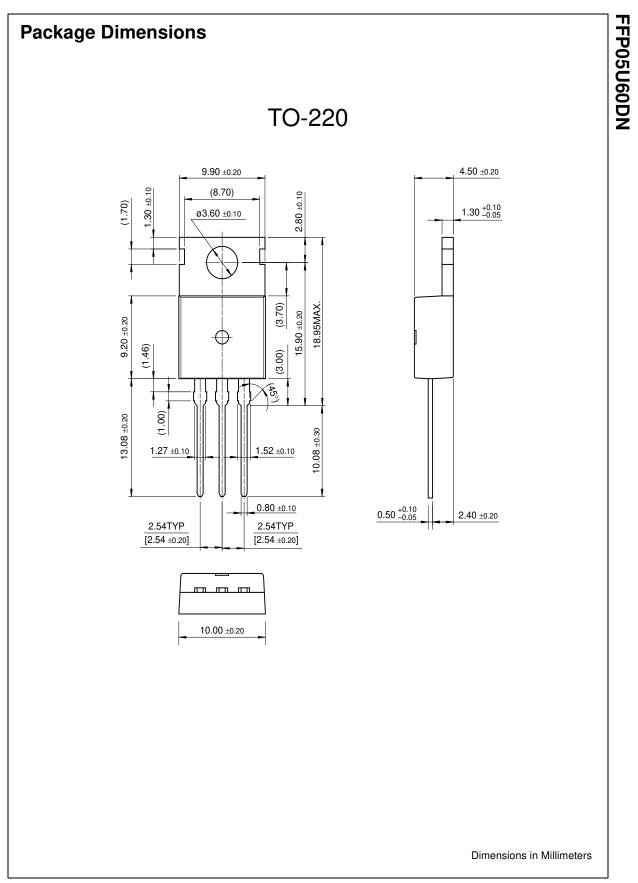
#### Electrical Characteristics (per diode) T<sub>C</sub>=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
/ <sub>FM</sub> *	Maximum Instantaneous Forward Voltage					V
	I <sub>F</sub> = 5A I <sub>F</sub> = 5A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C			2.3 2.2	
RM *	Maximum Instantaneous Reverse Current @ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C			2.5 25	μA
rr rr Q <sub>rr</sub>	Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge (I <sub>F</sub> =5A, di/dt = 200A/µs)				80 5.5 220	ns A nC
W <sub>AVL</sub>	Avalanche Energy		1.0			mJ



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QFET™ QS™ QT Optoelectronics<sup>™</sup> Quiet Series™ SuperSOT™-3 SuperSOT™-6 SuperSOT<sup>™</sup>-8 SyncFET™ TinyLogic™ UHC™

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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.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.
	•	Rev. F1