# 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.

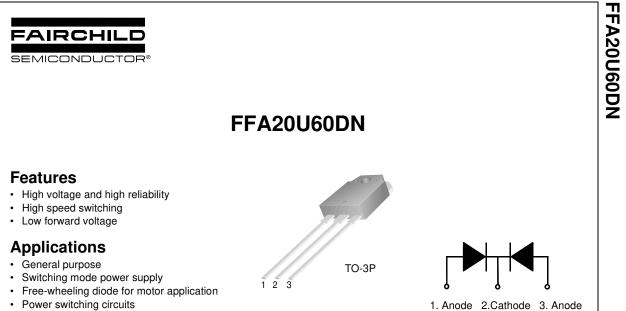
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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Power switching circuits

# **ULTRA FAST RECOVERY POWER RECTIFIER**

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

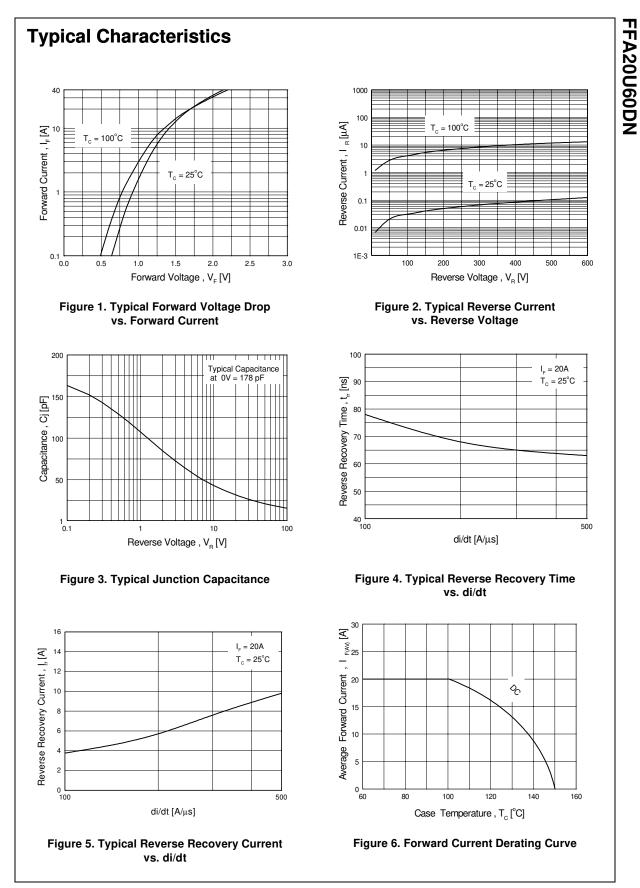
Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	600	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ $T_C = 100^{\circ}C$	20	А
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	120	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C

## **Thermal Characteristics**

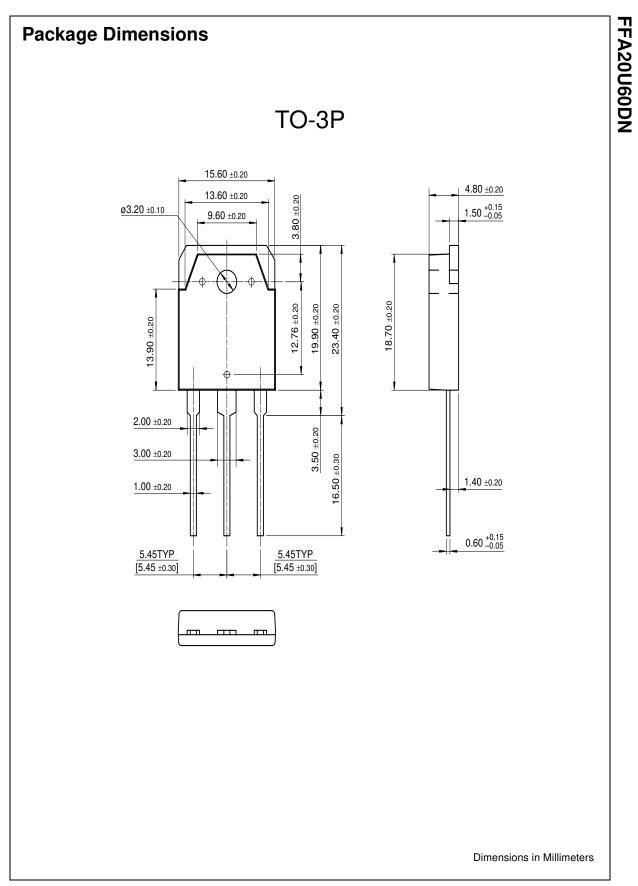
Symbol	Parameter	Value	Units	
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	1.25	°C/W	

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

Symbol	Parameter		Min.	Тур.	Max	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage					V
	I <sub>F</sub> = 20A	T <sub>C</sub> = 25 °C	-	-	2.2	
	I <sub>F</sub> = 20A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	2.0	
RM *	Maximum Instantaneous Reverse Current					μA
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	10	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	100	
rr	Maximum Reverse Recovery Time		-	-	90	ns
rr	Maximum Reverse Recovery Current		-	-	8	А
Q <sub>rr</sub>	Maximum Reverse Recovery Charge (I <sub>F</sub> =20A, di/dt = 200A/µs)		-	-	360	nC
W <sub>AVL</sub>	Avalanche Energy		1.0	-	-	mJ



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