

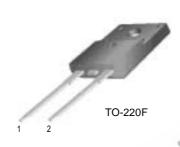
# FFPF06U20S

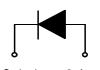
## **Features**

- · Ultrafast with soft recovery
- Low forward voltage

## **Applications**

- Power switching circuits
- Output rectifiers





2. Anode

Rev. F, September 2000

Output rectif	1 2	'	1
Switching m	ode power supply	1. Cathode	2. Anode
	FAST RECOVERY RECTIFIER  Maximum Ratings T <sub>C=25°C</sub> unless otherwise noted	.cn	
Symbol	Parameter	Value	Units
$V_{RRM}$	D. I.B. W. B. V.	200	
	Peak Repetitive Reverse Voltage	200	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>C</sub> = 100°C	6	
I <sub>F(AV)</sub> I <sub>FSM</sub>	ů,		V

# **Thermal Characteristics**

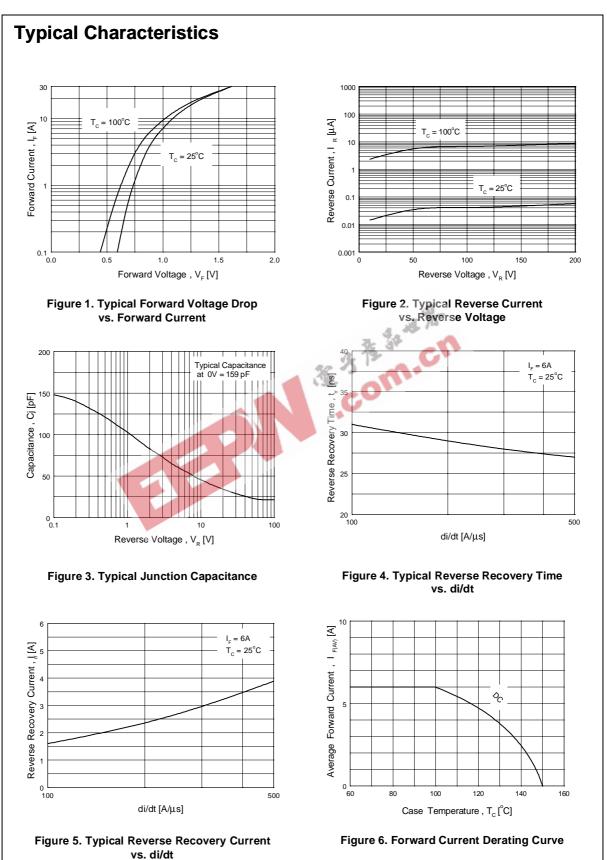
Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	8.0	°C/W

# Electrical Characteristics 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> = 6A	T <sub>C</sub> = 25 °C	-	-	1.2	
	I <sub>F</sub> = 6A	$T_C = 25 ^{\circ}C$ $T_C = 100 ^{\circ}C$	-	-	1.0	
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	$T_C = 25  ^{\circ}C$	-	-	6	
		$T_C = 25  ^{\circ}C$ $T_C = 100  ^{\circ}C$	-	-	60	
t <sub>rr</sub>	Maximum Reverse Recovery Time		-	-	35	ns
Irr	Maximum Reverse Recovery Current		-	-	2.5	Α
Q <sub>rr</sub>	Maximum Reverse Recovery Charge (I <sub>F</sub> =6A, di/dt = 200A/µs)		-	-	45	nC
W <sub>AVL</sub>	Avalanche Energy		0.5	-	-	mJ

<sup>\*</sup> Pulse Test: Pulse Width=300µs, Duty Cycle=2%

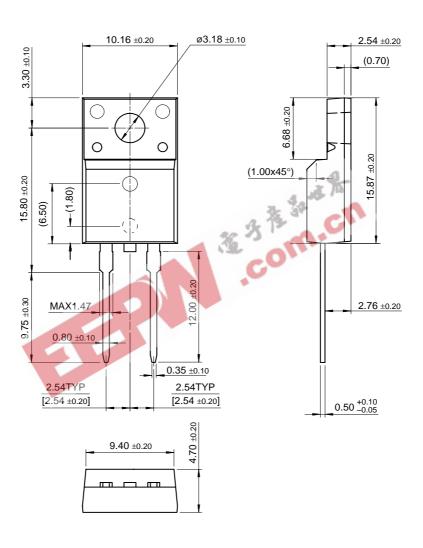
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# **Package Dimensions**

# TO-220F 2L



Dimensions in Millimeters

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E <sup>2</sup> CMOS™	MICROWIRE™	SuperSOT™-6	
EnSigna™	OPTOLOGIC™	SuperSOT™-8	
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FAST®	PowerTrench®	UHC™	

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