

# **ULTRA FAST RECOVERY POWER RECTIFIER**

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

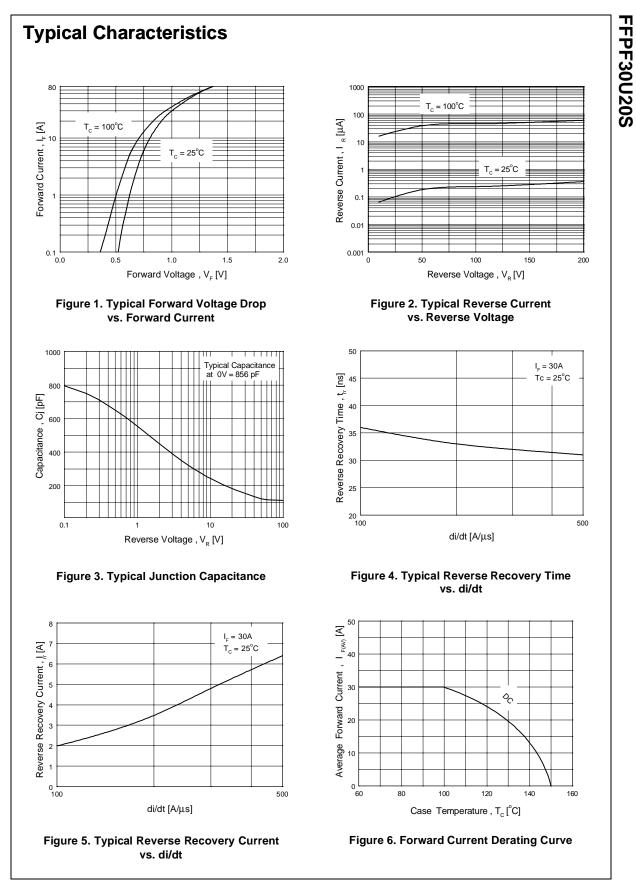
Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	200	V
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	30	Α
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	300	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C

## **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	1.7	°C/W

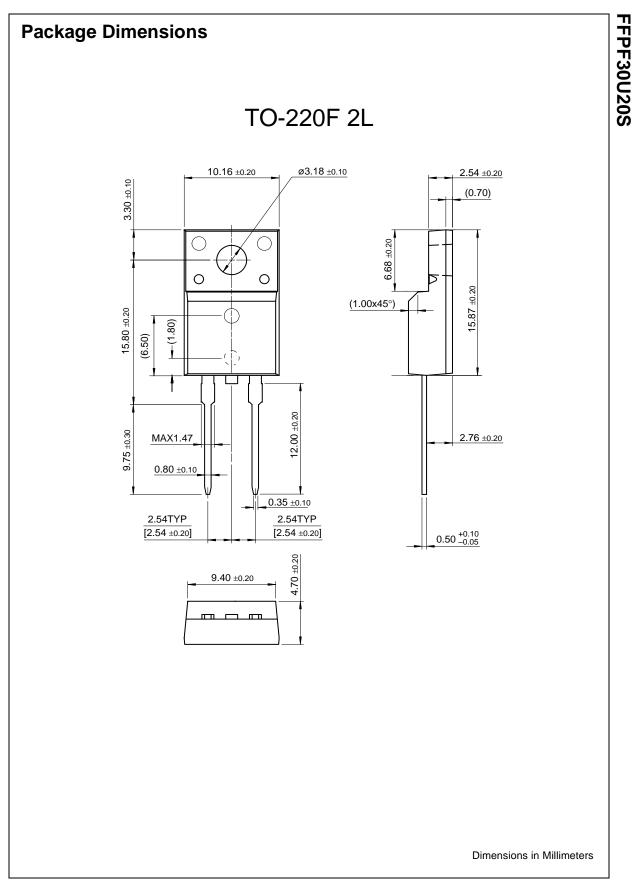
### Electrical Characteristics T<sub>C</sub>=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage					V
	I <sub>F</sub> = 30A	T <sub>C</sub> = 25 °C	-	-	1.2	
	I <sub>F</sub> = 30A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	1.0	
RM *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	30	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	300	
rr	Maximum Reverse Recovery Time		-	-	40	ns
rr	Maximum Reverse Recovery Current		-	-	4.0	Α
2 <sub>rr</sub>	Maximum Reverse Recovery Charge (I <sub>F</sub> =30A, di/dt = 200A/μs)		-	-	80	nC
WAVL	Avalanche Energy		0.5	-	-	mJ



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