

# **ULTRA FAST RECOVERY POWER RECTIFIER**

## Absolute Maximum Ratings Tc=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	1200	V
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	5	A
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 StorageTemperature	- 65 to +150	°C

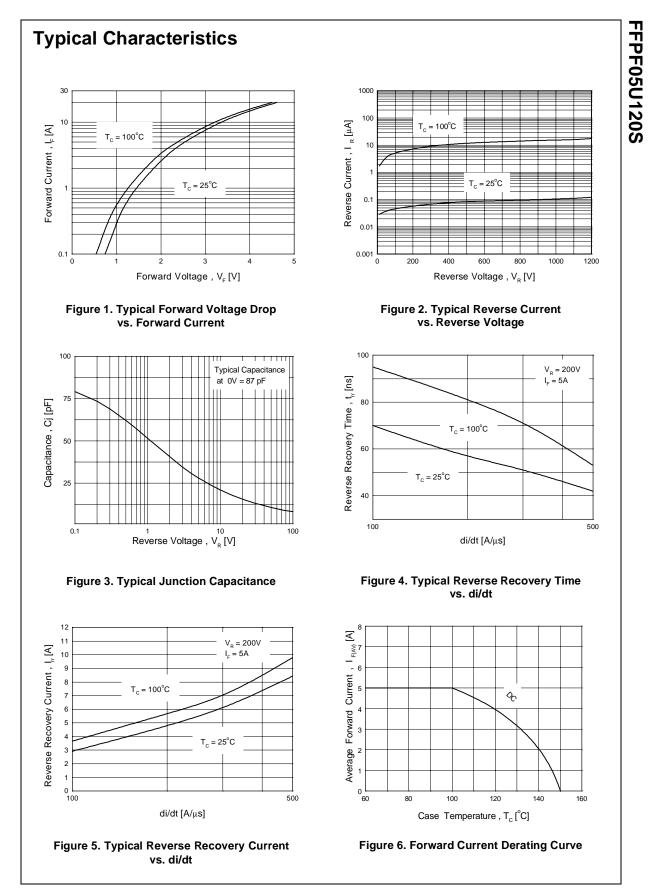
# **Thermal Characteristics**

Symbol	Parameter	Value	Units	
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	3.4	°C/W	

## Electrical Characteristics 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	T <sub>C</sub> = 25 °C	-	-	3.5	
	I <sub>F</sub> = 5A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	3.2	
RM *	Maximum Instantaneous Reverse Current					μA
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	5	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	600	
rr	Maximum Reverse Recovery Time		-	-	100	ns
rr	Maximum Reverse Recovery Current		-	-	7	А
2 <sub>rr</sub>	Maximum Reverse Recovery Charge $(I_F = 5A, di/dt = 200A/\mu s)$		-	-	280	nC
W <sub>AVL</sub>	Avalanche Energy		1.0	-	-	mJ

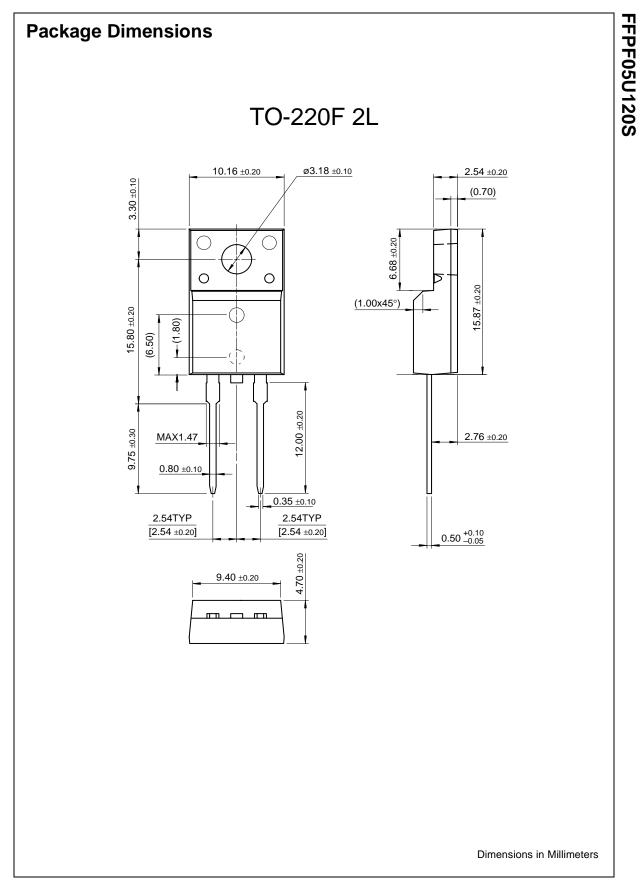
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