

# **20A SCHOTTKY BARRIER RECTIFIER**

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

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	100	V
V <sub>R</sub>	Maximum DC Reverse Voltage	100	V
I <sub>F(AV)</sub>	Maximum Average Rectified Current @ $T_C = 105^{\circ}C$	20	А
I <sub>FSM</sub>	Maximum Forward Surge Current (per diode) 60Hz Single Half-Sine Wave	150	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	-65 to +150	°C

# **Thermal Characteristics**

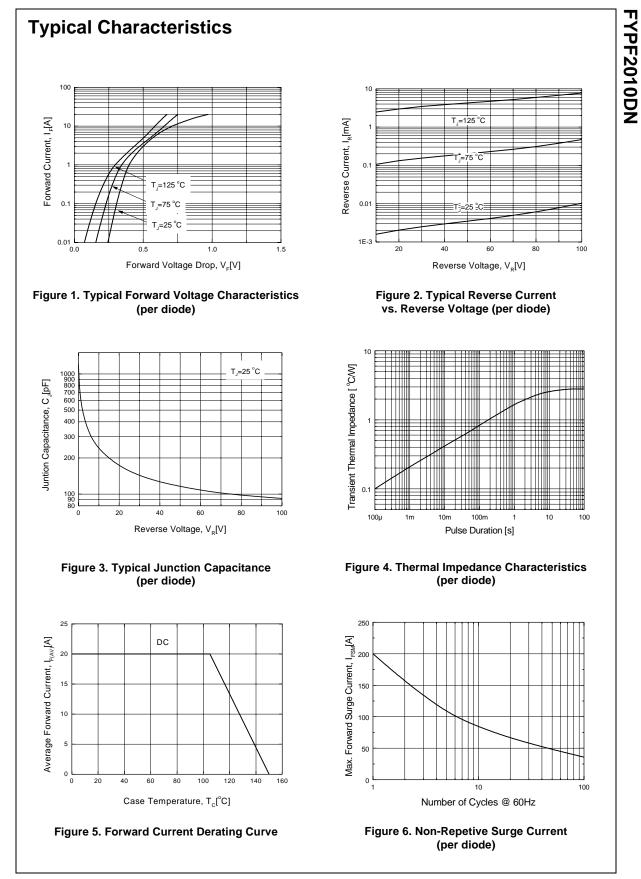
Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	2.8	°C/W

## 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> = 10A	T <sub>C</sub> = 25 °C	-	-	0.77	
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	-	-	0.65	
	I <sub>F</sub> = 20A	T <sub>C</sub> = 25 °C	-	-	-	
	I <sub>F</sub> = 20A	T <sub>C</sub> = 125 °C	-	-	0.75	
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current					mA
	(per diode) @ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	0.1	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	-	-	20	

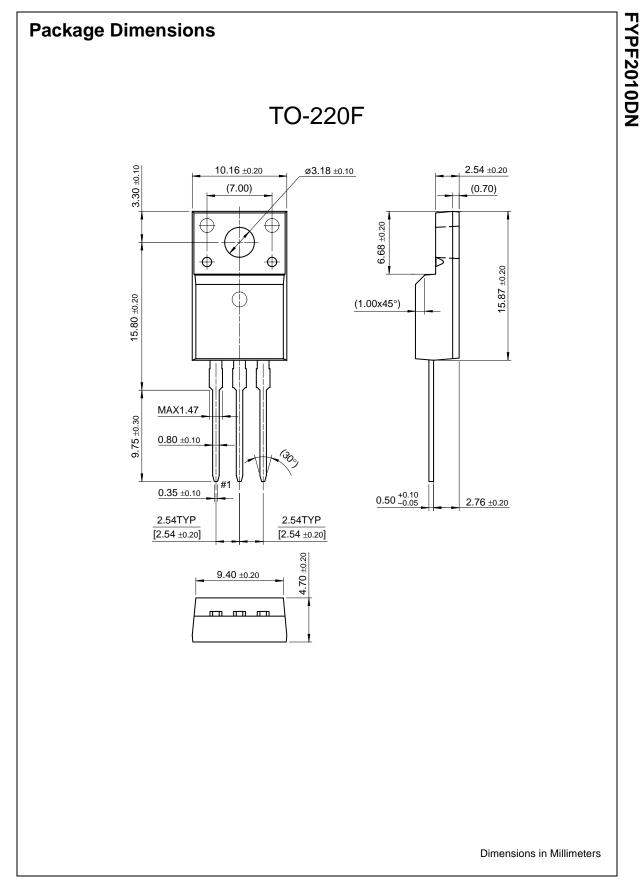
\* Pulse Test: Pulse Width=300µs, Duty Cycle=2%

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