

# SCHOTTKY BARRIER RECTIFIER

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

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	45	V
V <sub>R</sub>	Maximum DC Reverse Voltage	45	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ $T_C = 120^{\circ}C$	20	A
I <sub>FSM</sub>	Non-repetitive Peak 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

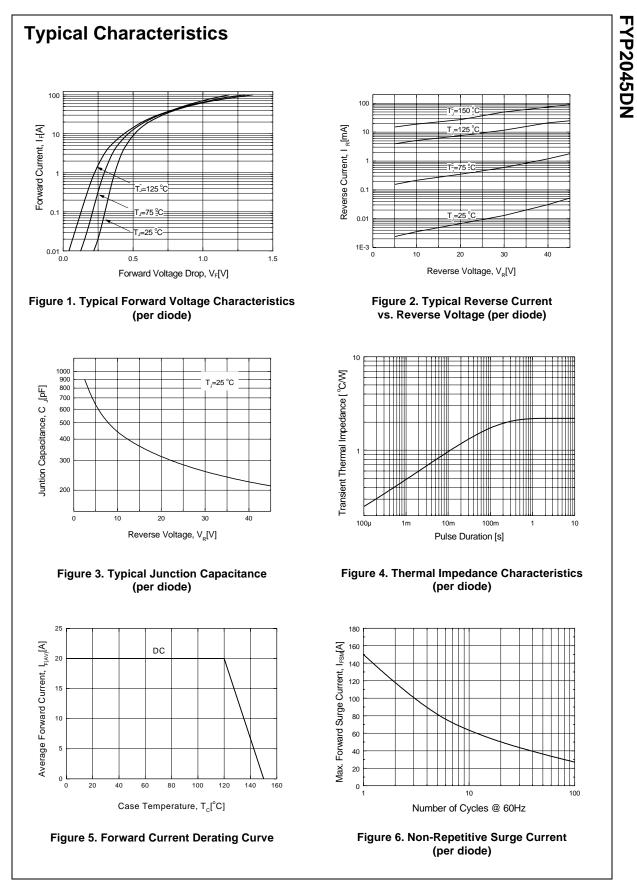
# **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	2.2	°C/W

# Electrical Characteristics (per diode)

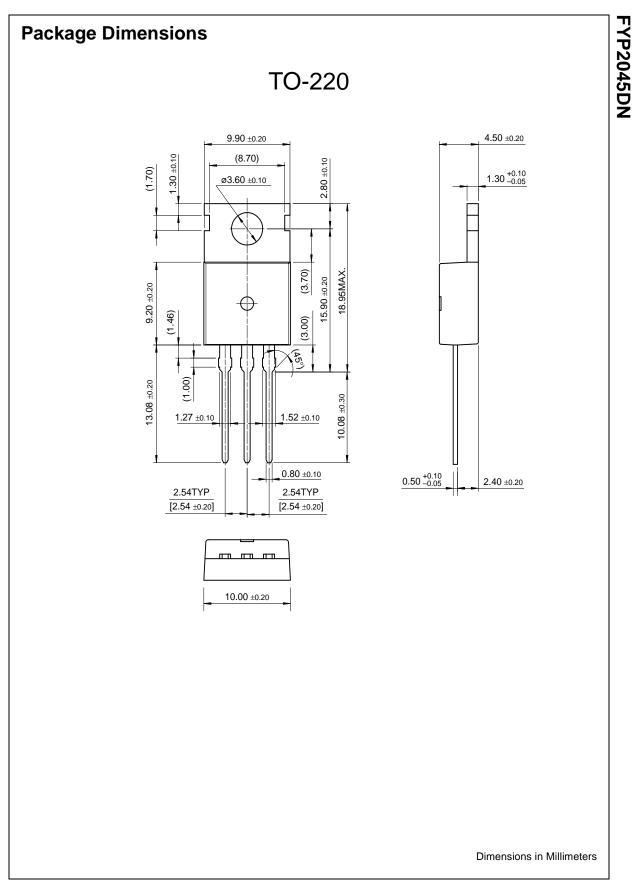
Symbol	Parameter		Value	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage			V
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C	0.55	
	I <sub>F</sub> = 10A	T <sub>C</sub> = 125 °C	0.49	
	$I_F = 20A$	T <sub>C</sub> = 25 °C	0.70	
	I <sub>F</sub> = 20A	$T_{C} = 25 \text{ °C}$ $T_{C} = 125 \text{ °C}$ $T_{C} = 25 \text{ °C}$ $T_{C} = 125 \text{ °C}$	0.65	
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current			mA
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	1	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	80	

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



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