

SCHOTTKY BARRIER RECTIFIER

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	40	V
V _R	Maximum DC Reverse Voltage	40	V
I _{F(AV)}	Maximum Average Rectified Current @ $T_C = 115^{\circ}C$	20	Α
I _{FSM}	Maximum Forward Surge Current (per diode) 60Hz Single Half-Sine Wave	150	A
T _{J.} T _{STG}	Operating Junction and Storage Temperature	-40 to +150	°C

Thermal Characteristics

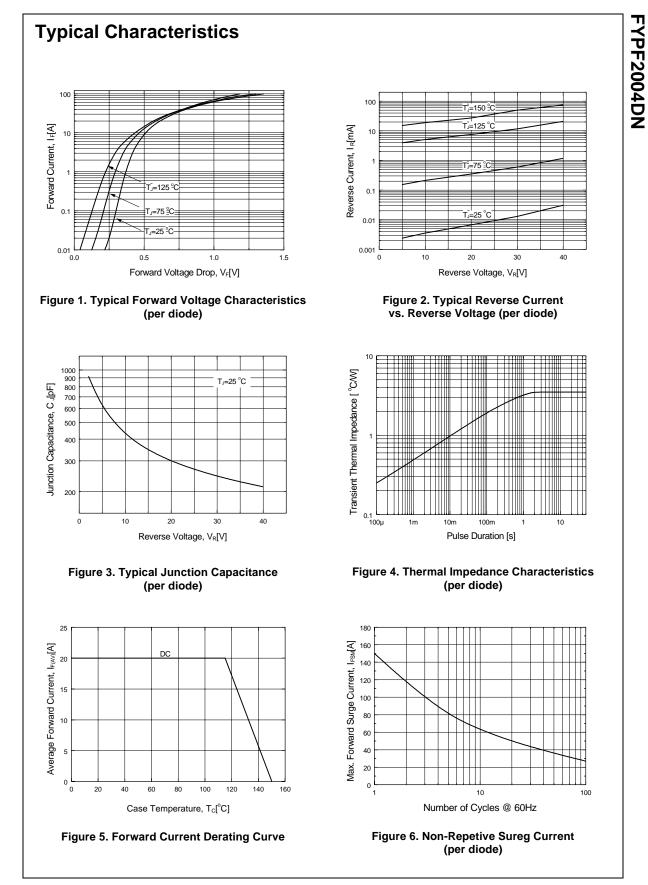
Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	3.5	°C/W

Electrical Characteristics (per diode)

Symbol	Parameter		Value	Units
V _{FM} *	Maximum Instantaneous Forward Voltage			V
	I _F = 10A	T _C = 25 °C	0.55	
	I _F = 10A	T _C = 125 °C	0.49	
	$I_F = 20A$	$T_{C} = 25 °C$ $T_{C} = 125 °C$ $T_{C} = 25 °C$	0.67	
	I _F = 20A	T _C = 125 °C	0.65	
RM *	Maximum Instantaneous Reverse Current			mA
	@ rated V _R	T _C = 25 °C	1	
		T _C = 25 °C T _C = 125 °C	80	

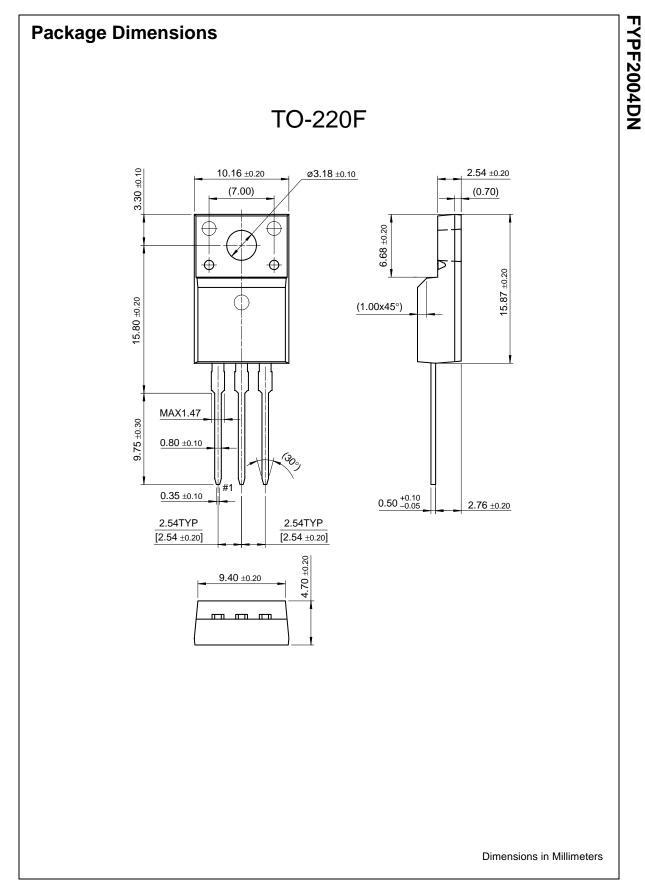
* Pulse Test: Pulse Width=300µs, Duty Cycle=2%

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