

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 |

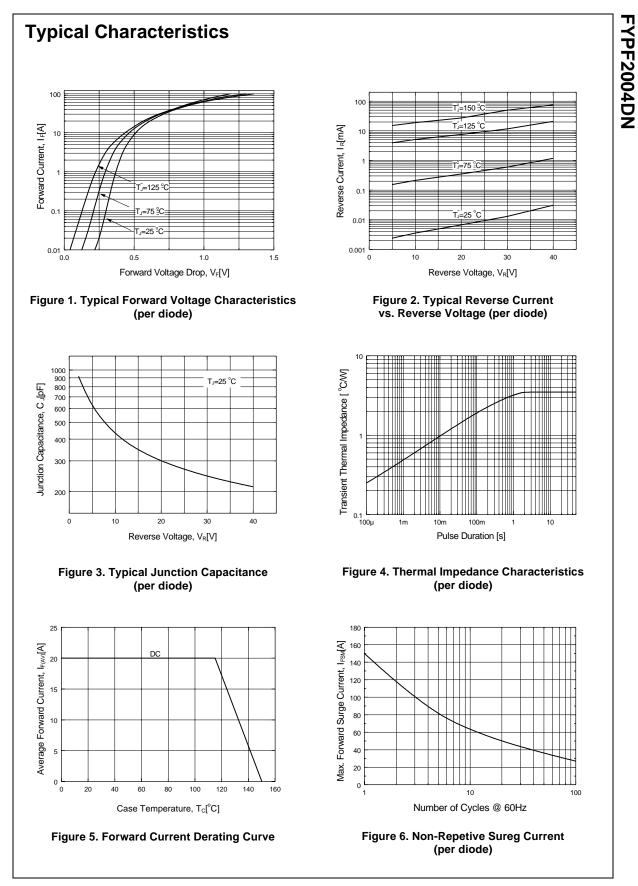
Thermal Characteristics

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

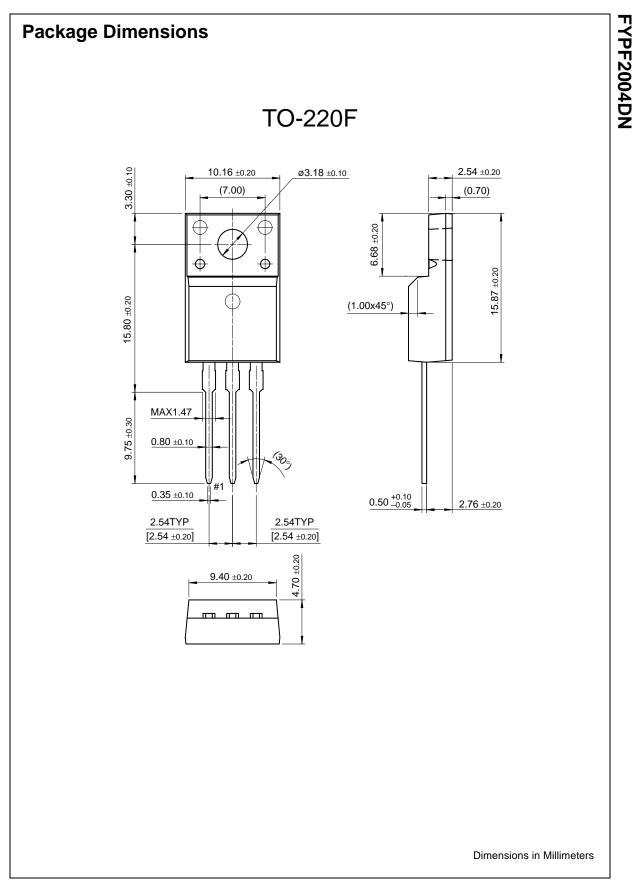
Electrical Characteristics (per diode)

| 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 | 0.67 | |
| | I _F = 20A | $T_{C} = 25 °C$ $T_{C} = 125 °C$ $T_{C} = 25 °C$ $T_{C} = 125 °C$ $T_{C} = 125 °C$ | 0.65 | |
| I _{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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|--------------------------|---------------------------|---|
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