

ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings (per diode) T_C=25°C unless otherwise noted

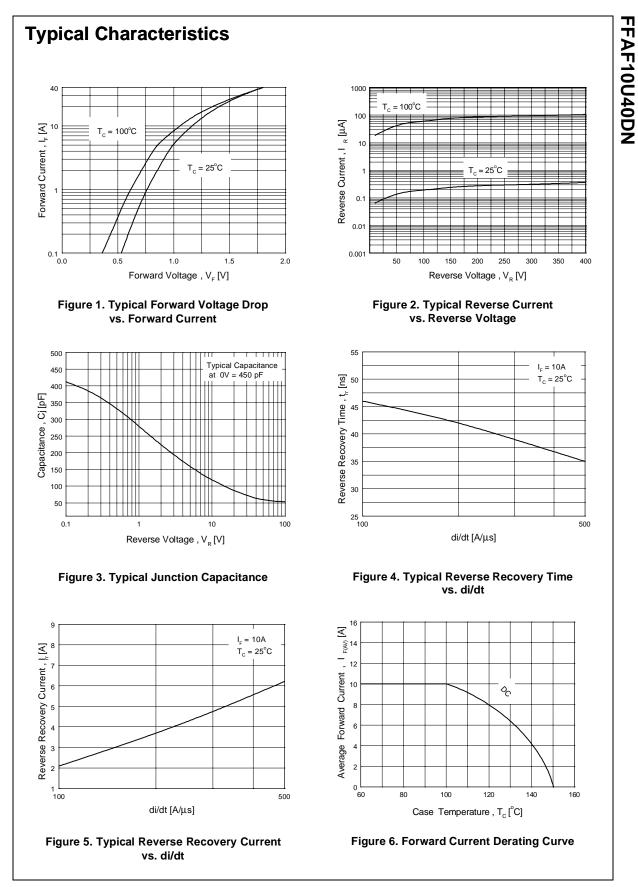
| Symbol | Parameter | Value | Units | |
|----------------------------------|---|--------------|-------|--|
| V _{RRM} | Peak Repetitive Reverse Voltage | 400 | V | |
| I _{F(AV)} | Average Rectified Forward Current @ T _C = 100°C | 10 | А | |
| I _{FSM} | Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave | 100 | A | |
| T _{J,} T _{STG} | Operating Junction and Storage Temperature | - 65 to +150 | °C | |

Thermal Characteristics

| Symbol | Parameter | Value | Units |
|-----------------|--|-------|-------|
| $R_{\theta JC}$ | Maximum Thermal Resistance, Junction to Case | 4.0 | °C/W |

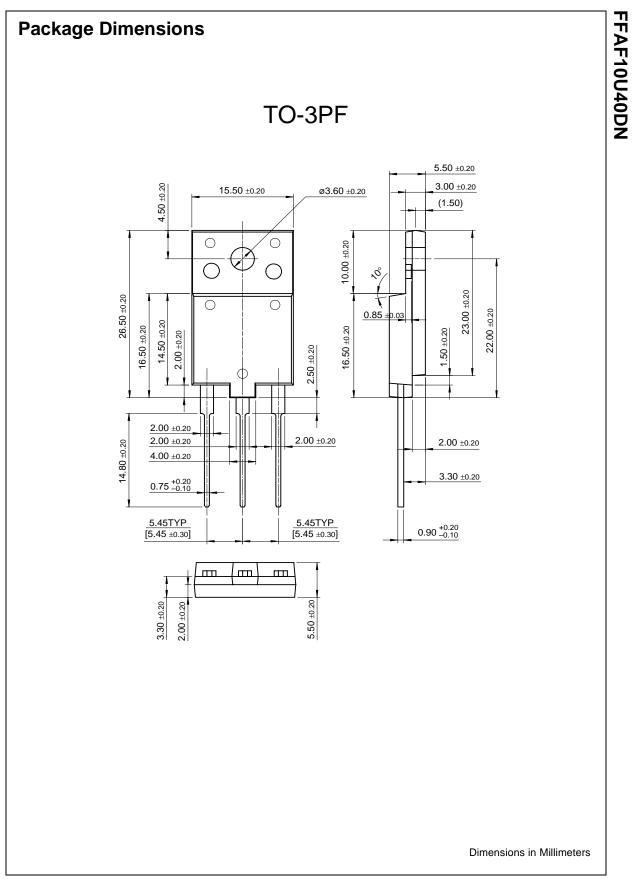
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

| Symbol | Parameter | | Min. | Тур. | Max. | Units |
|-------------------|---|---|------|------|------|-------|
| V _{FM} * | Maximum Instantaneous Forward Voltage | | | | | V |
| | I _F = 10A | T _C = 25 °C | - | - | 1.4 | |
| | I _F = 10A | T _C = 25 °C T _C = 100 °C | - | - | 1.3 | |
| RM * | Maximum Instantaneous Reverse Current | | | | | μΑ |
| | @ rated V _R | T _C = 25 °C | - | - | 30 | |
| | | T _C = 25 °C T _C = 100 °C | - | - | 300 | |
| rr | Maximum Reverse Recovery Time | | - | - | 50 | ns |
| rr | Maximum Reverse Recovery Current | | - | - | 4.5 | А |
| 2 _{rr} | Maximum Reverse Recovery Charge (I _F =10A, di/dt = 200A/µs) | | - | - | 113 | nC |
| W _{AVL} | Avalanche Energy | | 1.0 | - | - | mJ |



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PRODUCT STATUS DEFINITIONS

Definition of Terms

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|--------------------------|---------------------------|---|
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