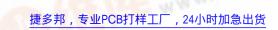
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ULTRA FAST RECOVERY POWER RECTIFIER

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 $@T_{C} = 100^{\circ}C$ | 6 | A |
| I _{FSM} | Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave | 60 | A |
| T _{J,} T _{STG} | Operating Junction and StorageTemperature | - 65 to +150 | °C |

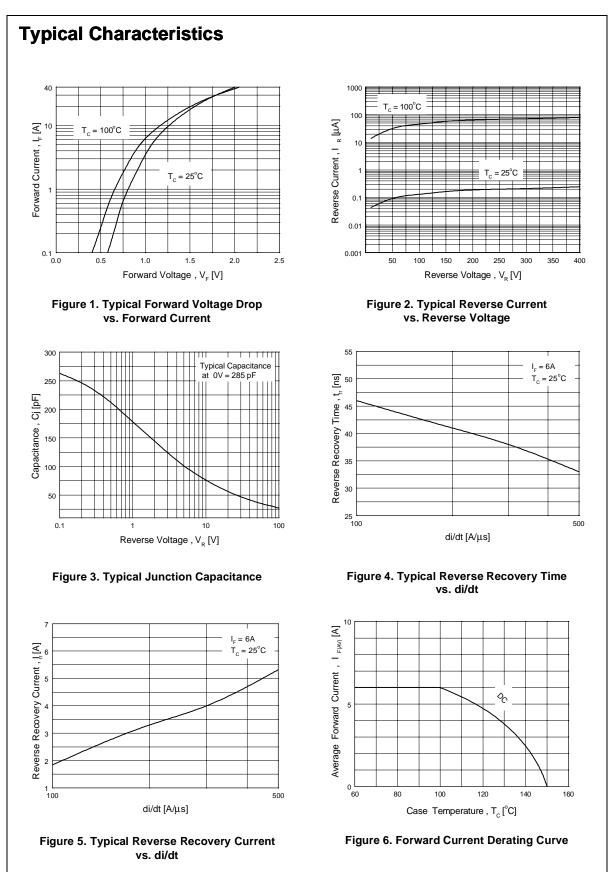
Thermal Characteristics

| Symbol | Parameter | Value | Units |
|------------------|--|-------|-------|
| R _{θJC} | Maximum Thermal Resistance, Junction to Case | 7.0 | °C/W |

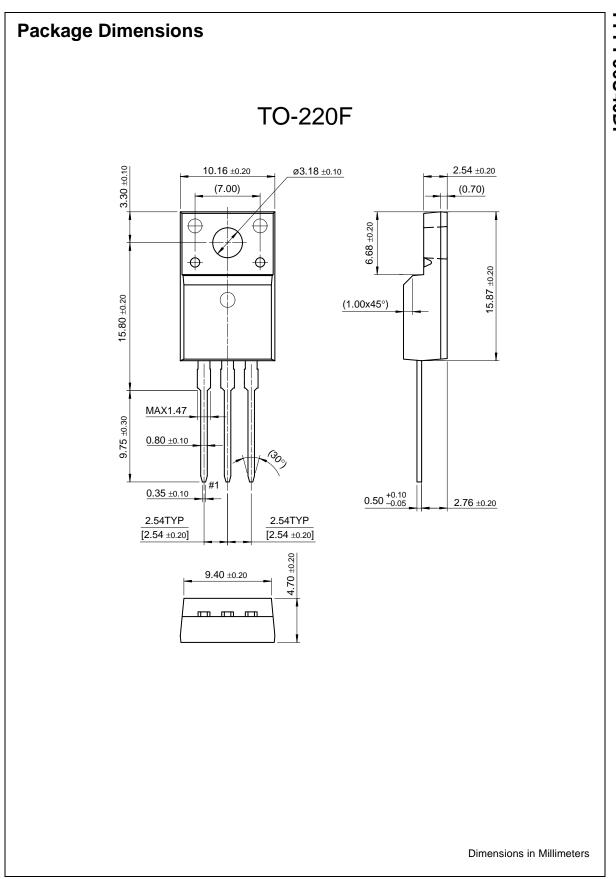
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

| Symbol | Parameter | | Min. | Тур. | Max. | Units |
|---|---|---|-------------|-------------|------------------|---------------|
| V _{FM} * | Maximum Instantaneous Forward Voltage I _F = 6A I _F = 6A | T _C = 25 °C T _C = 100 °C | | Y | 1.4 1.3 | V |
| RM * | Maximum Instantaneous Reverse Current @ rated V _R | T _C = 25 °C T _C = 100 °C | - | - | 20 200 | μA |
| t _{rr} Irr Q _{rr} | Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge (I _F =6A, di/dt = 200Α/μs) | | - - - | - - - | 50 4.0 100 | ns A nC |
| W _{AVL} | Avalanche Energy | | 1.0 | - | - | mJ |

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



FFPF06U40DP



FFPF06U40DP

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PRODUCT STATUS DEFINITIONS

Definition of Terms

| Datasheet Identification | Product Status | Definition |
|--------------------------|---------------------------|---|
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| No Identification Needed | Full Production | This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design. |
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