

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 | 600 | V |
| I _{F(AV)} | Average Rectified Forward Current @ $T_C = 100^{\circ}C$ | 10 | A |
| I _{FSM} | Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave | 60 | A |
| T _{J,} T _{STG} | Operating Junction and Storage Temperature | - 65 to +150 | °C |

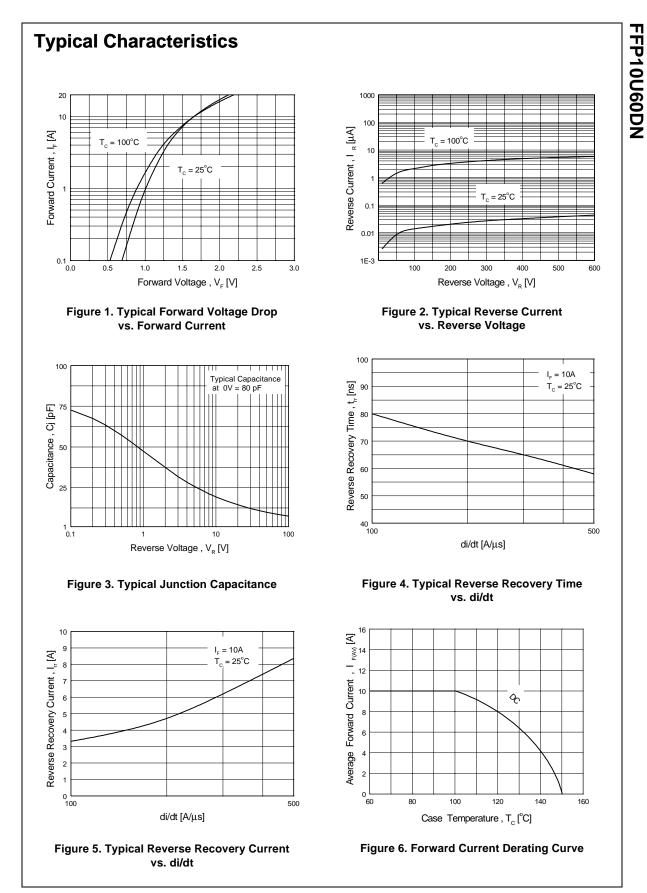
Thermal Characteristics

| Symbol | Parameter | Value | Units |
|-----------------------|--|-------|-------|
| $R_{	extsf{	heta}JC}$ | Maximum Thermal Resistance, Junction to Case | 2.5 | °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 I _F = 10A | T _C = 25 °C T _C = 100 °C | | | 2.2 2.0 | |
| RM * | Maximum Instantaneous Reverse Current @ rated V _R | T _C = 25 °C T _C = 100 °C | | | 5 50 | μA |
| t _{rr} I _{rr} Q _{rr} | Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge $(I_F = 10A, di/dt = 200A/\mu s)$ | | | | 90 6 270 | ns A nC |
| W _{AVL} | Avalanche Energy | | 1.0 | | | mJ |

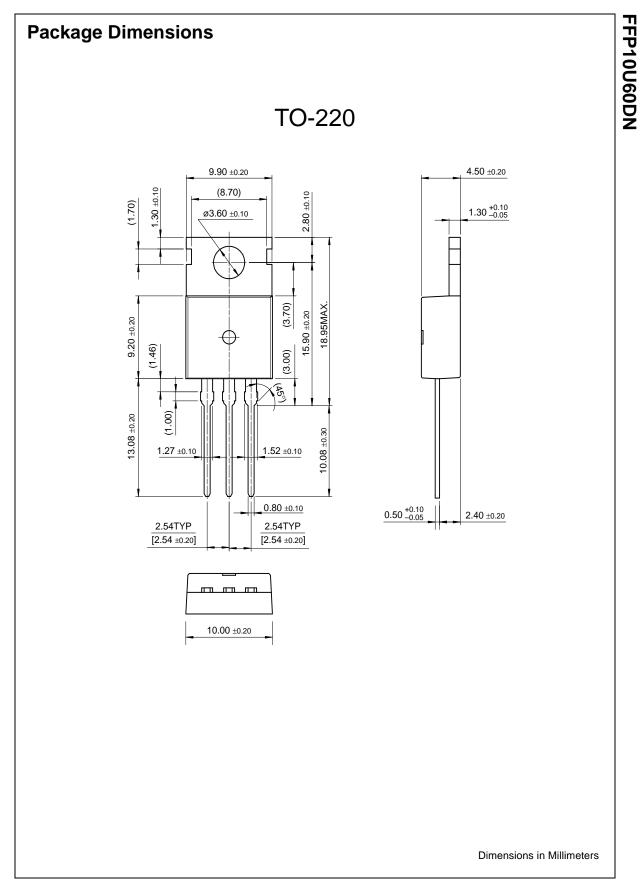
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|--------------------------|---------------------------|---|
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