

ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings T_C=25°C unless otherwise noted

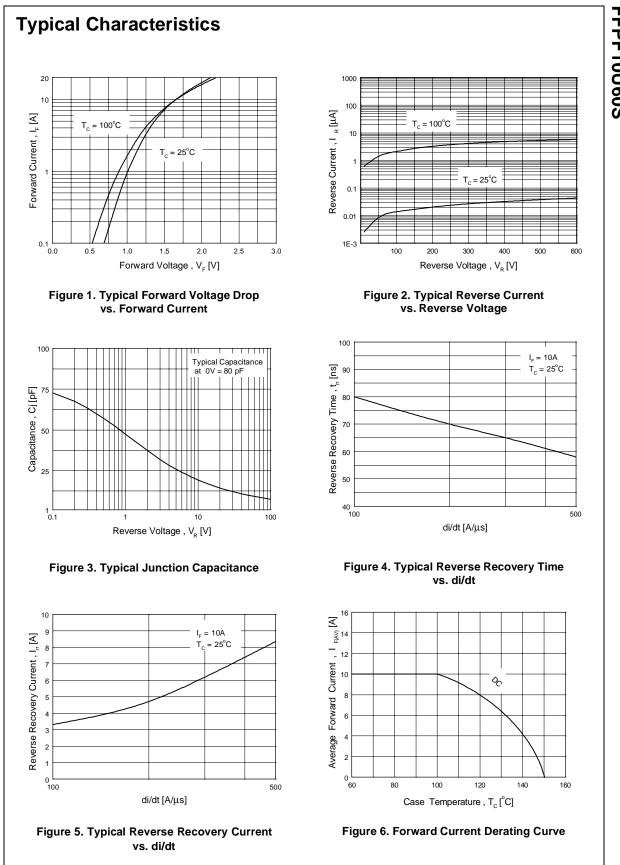
| Symbol | Parameter | Value | Units | |
|----------------------------------|---|--------------|-------|--|
| V _{RRM} | Peak Repetitive Reverse Voltage | 600 | V | |
| I _{F(AV)} | Average Rectified Forward Current $@T_{C} = 100^{\circ}C$ | 10 | А | |
| I _{FSM} | Non-repetitive Peak Surge Current 60Hz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

Thermal Characteristics

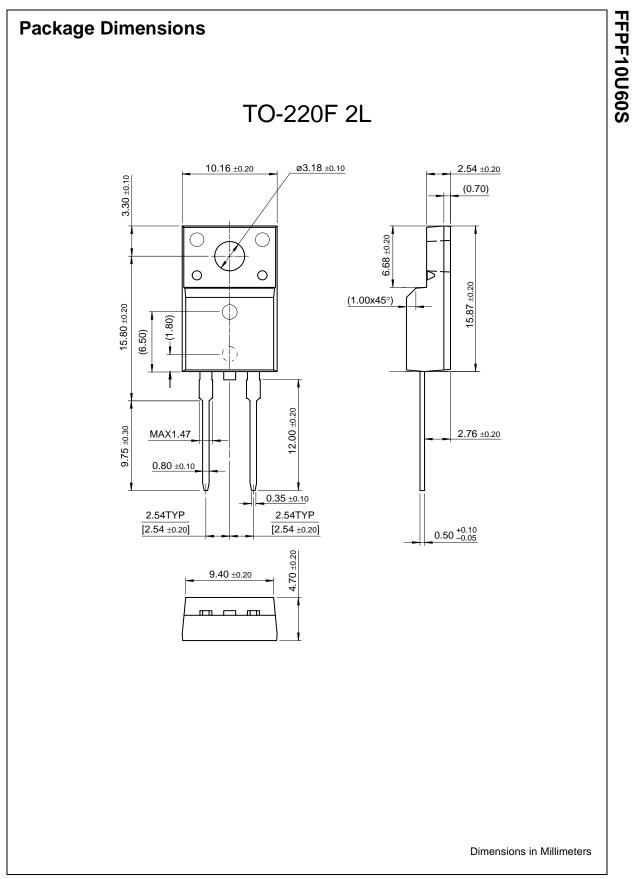
| Symbol | Parameter | Value | Units |
|------------------|--|-------|-------|
| R _{θJC} | Maximum Thermal Resistance, Junction to Case | 2.5 | °C/W |

Electrical Characteristics 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 |
| rr Qrr | 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 |



FFPF10U60S



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PRODUCT STATUS DEFINITIONS

Definition of Terms

| Datasheet Identification | Product Status | Definition |
|--------------------------|---------------------------|---|
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Product status/pricing/packaging

| Product | Product status | Pricing* | Package type | Leads | Packing method |
|--------------|-----------------|----------|----------------|-------|----------------|
| FFPF10U60STU | Full Production | \$0.43 | <u>TO-220F</u> | 2 | RAIL |

* 1,000 piece Budgetary Pricing

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