

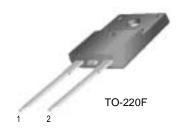
FFPF10F150S

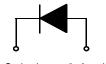
Features

- High voltage and high reliability
- High speed switching
- Low forward voltage

Applications

• Suitable for damper diode in horizontal deflection circuits





1. Cathode

2. Anode

DAMPER DIODE

Absolute Maximum Ratings T_C=25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|----------------------------------|---|--------------|-------|
| V _{RRM} | Peak Repetitive Reverse Voltage | 1500 | V |
| I _{F(AV)} | Average Rectified Forward Current @ T _C = 125°C | 10 | А |
| I _{FSM} | Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave | 100 | А |
| T _{J,} T _{STG} | Operating Junction and StorageTemperature | - 65 to +150 | °C |

Thermal Characteristics

| Symbol | | Parameter | Value | Units | |
|--------|--|-----------|-------|-------|--|
| | R _{B.IC} Maximum Thermal Resistance, Junction to Case | | 3.0 | °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 | $T_C = 25 ^{\circ}C$ | - | - | 1.6 | |
| | I _F = 10A | $T_C = 25 ^{\circ}C$ $T_C = 125 ^{\circ}C$ | - | - | 1.4 | |
| I _{RM} * | Maximum Instantaneous Reverse Current | | | | | μΑ |
| | @ rated V _R | $T_C = 25 ^{\circ}C$ | - | - | 10 | |
| | | $T_C = 25 ^{\circ}C$ $T_C = 125 ^{\circ}C$ | - | - | 80 | |
| rr | Maximum Reverse Recovery Time (I _F =1A, di/dt = 50A/µs) | | - | - | 170 | ns |
| fr | Maximum Forward Recovery Time (I _F =6.5A, di/dt = 50A/μs) | | - | - | 250 | ns |
| V_{FRM} | Maximum Forward Recovery Voltage | | - | - | 14 | V |

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

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Typical Characteristics

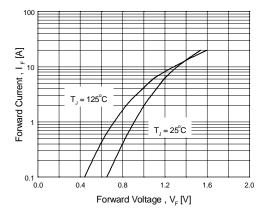


Figure 1. Typical Forward Voltage Drop vs. Forward Current

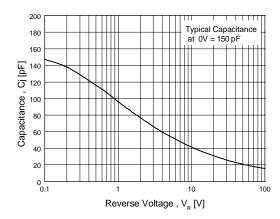


Figure 3. Typical Junction Capacitance

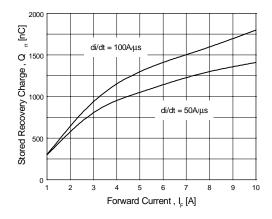


Figure 5. Typical Stored Charge vs. Forward Current

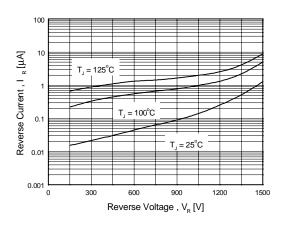


Figure 2. Typical Reverse Current vs. Reverse Voltage

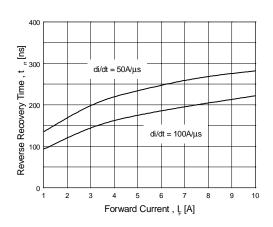


Figure 4. Typical Reverse Recovery Time vs. Forward Current

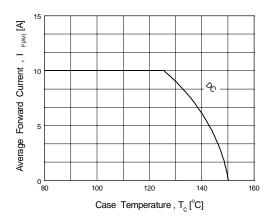
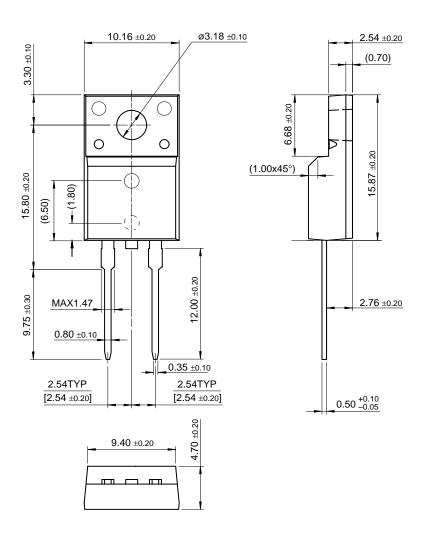


Figure 6. Forward Current Derating Curve

Package Dimensions

TO-220F 2L



Dimensions in Millimeters

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