

# DAMPER DIODE

### Absolute Maximum Ratings Tc=25°C unless otherwise noted

| Symbol                           | Parameter   | Value        | Units |
|----------------------------------|---|--------------|-------|
| V <sub>RRM</sub>                 | Peak Repetitive Reverse Voltage                                 | 1700         | V     |
| I <sub>F(AV)</sub>               | Average Rectified Forward Current @ $T_C = 125^{\circ}C$        | 10           | Α     |
| I <sub>FSM</sub>                 | Non-repetitive Peak Surge Current<br>60Hz Single Half-Sine Wave | 100          | A     |
| T <sub>J,</sub> T <sub>STG</sub> | Operating Junction and Storage Temperature                      | - 65 to +150 | °C    |

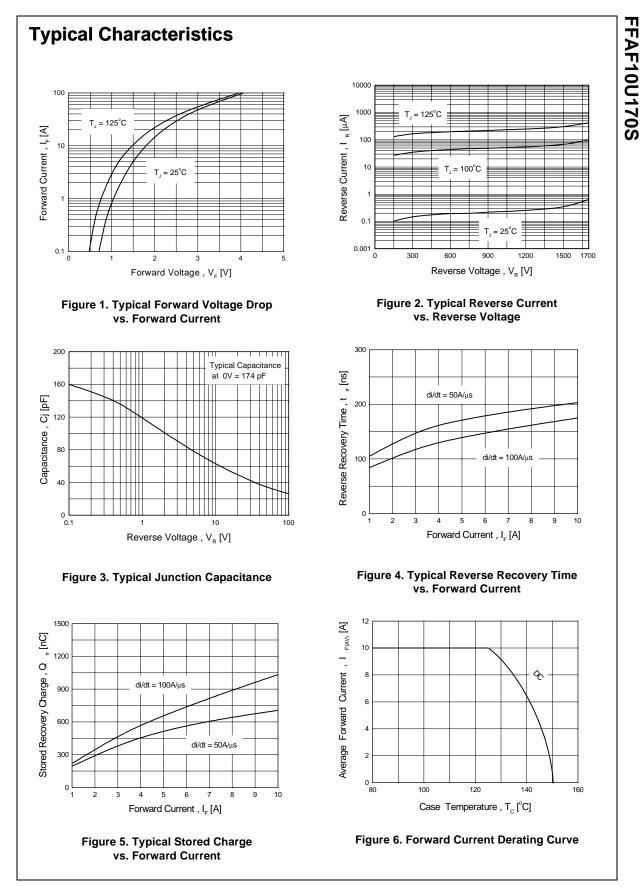
## **Thermal Characteristics**

| Symbol          | Parameter                                    | Value | Units |
|-----------------|--|-------|-------|
| $R_{\theta JC}$ | Maximum Thermal Resistance, Junction to Case | 1.5   | °C/W  |

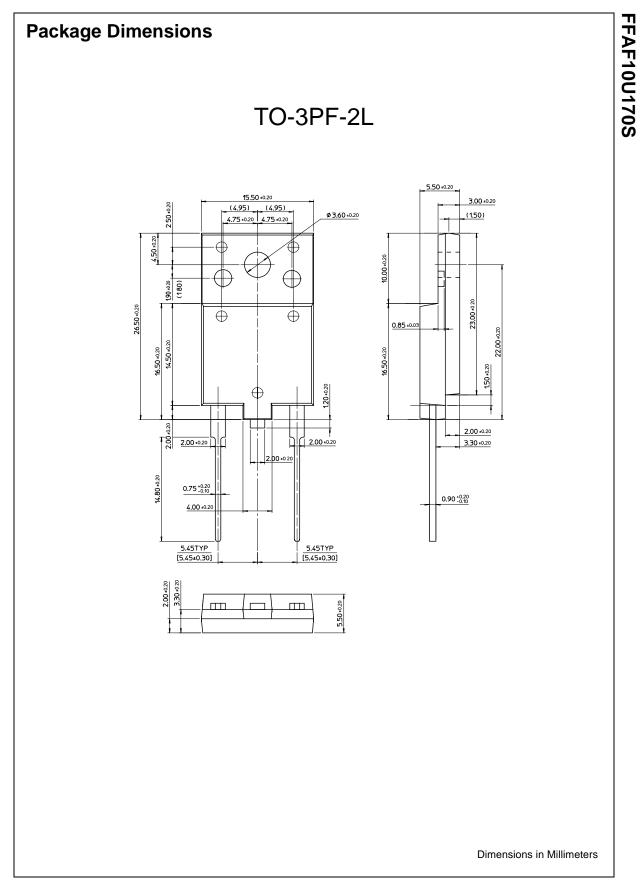
# Electrical Characteristics T<sub>C</sub>=25 °C unless otherwise noted

| Symbol            | Parameter                              |   | Min. | Тур. | Max. | Units |
|-------------------|--|---|------|------|------|-------|
| V <sub>FM</sub> * | Maximum Instantaneous Forward Voltage  |   |      |      |      | V     |
|                   | I <sub>F</sub> = 10A                   | T <sub>C</sub> = 25 °C                            | -    | -    | 2.2  |       |
|                   | I <sub>F</sub> = 10A                   | T <sub>C</sub> = 25 °C<br>T <sub>C</sub> = 125 °C | -    | -    | 2.0  |       |
| I <sub>RM</sub> * | Maximum Instantaneous Reverse Current  |   |      |      |      | mA    |
|                   | @ rated V <sub>R</sub>                 | T <sub>C</sub> = 25 °C<br>T <sub>C</sub> = 125 °C | -    | -    | 0.1  |       |
|                   |  | T <sub>C</sub> = 125 °C                           | -    | -    | 10   |       |
| t <sub>rr</sub>   | Maximum Reverse Recovery Time          |   | -    | -    | 140  | ns    |
|                   | $(I_F = 1A, di/dt = 50A/\mu s)$        |   |      |      |      |       |
| t <sub>fr</sub>   | Maximum Forward Recovery Time          |   | -    | -    | 400  | ns    |
|                   | (I <sub>F</sub> =6.5A, di/dt = 50A/µs) |   |      |      |      |       |
| V <sub>FRM</sub>  | Maximum Forward Recovery Voltage       |   | -    | -    | 13   | V     |

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