

# PG127S17(10A)

(1700V/10A)

## FAST RECOVERY DIODE

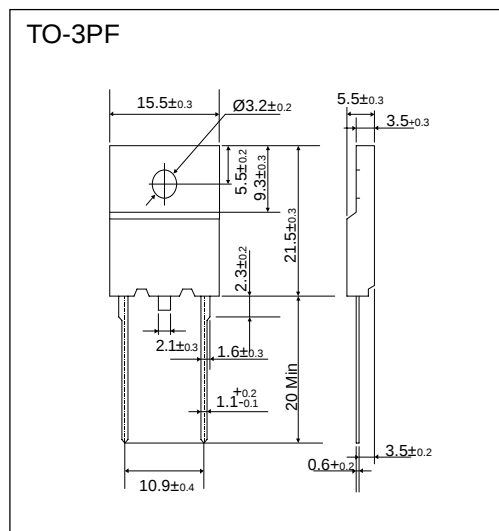
### Features

- Damper diode for high definition TV and high resolution display
- Super high speed switching.
- High reliability

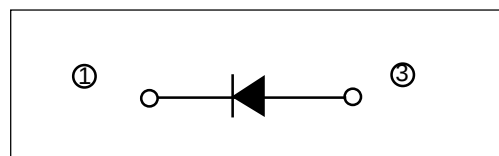
### Applications

- Damper diode for horizontal deflection circuit
- High speed switching

### Outline Drawings



### Connection Diagram



### Maximum Ratings and Characteristics

- Absolute Maximum Ratings

| Items                               | Symbols   | Conditions                                   | Rating      | Units       |
|-------------------------------------|-----------|----------------------------------------------|-------------|-------------|
| Repetitive peak reverse voltage     | $V_{RRM}$ |                                              | 1700        | V           |
| Non-repetitive peak reverse voltage | $V_{RSM}$ |                                              | 1700        | V           |
| Isolation voltage                   | $V_{iso}$ | Terminals to case<br>AC 1 min.               | 1700        | V           |
| Average forward current             | $I_o$     | duty=1/2, $T_c=89^{\circ}C$<br>Rectangl wave | 10          | A           |
| Non-repetitive surge current        | $I_{FSM}$ | Sine wave 10ms<br>1shot                      | 100         | A           |
| Operating junction temperature      | $T_j$     |                                              | -40 to +150 | $^{\circ}C$ |
| Storage temperature                 | $T_{stg}$ |                                              | -40 to +150 | $^{\circ}C$ |

- Electrical Characteristics( $T_a=25^{\circ}C$  Unless otherwise specified)

| Items                 | Symbols       | Conditions           | Max. | Units         |
|-----------------------|---------------|----------------------|------|---------------|
| Forward Voltage Drop  | $V_{FM}$      | $I_{FM}=4A$          | 2.0  | V             |
| Reverse Current       | $I_{RRM}$     | $V_R=V_{RRM}$        | 200  | $\mu A$       |
| Reverse recovery time | $t_{rr}$      | $I_F=0.1A, I_R=0.1A$ | 0.7  | $\mu s$       |
| Thermal resistance    | $R_{th(j-c)}$ | Junction to case     | 2.0  | $^{\circ}C/W$ |

## Characteristics

