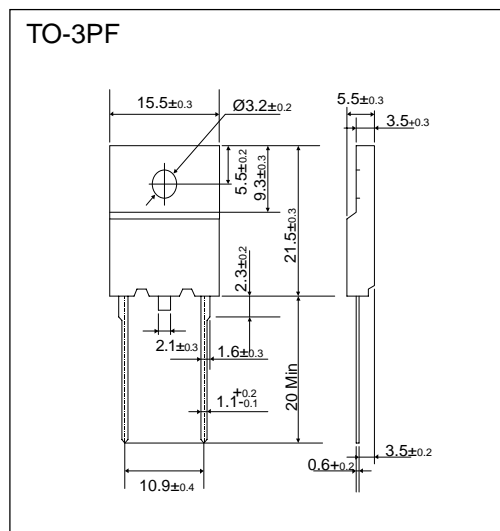


PG127S17(10A)

(1700V/10A)

FAST RECOVERY DIODE

Outline Drawings



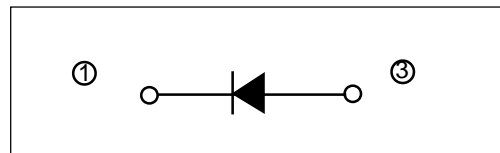
Features

- 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

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 AC 1 min. | 1700 | V |
| Average forward current | I_o | duty=1/2, $T_c=89^\circ\text{C}$ Rectangl wave | 10 | A |
| Non-repetitive surge current | I_{FSM} | Sine wave 10ms 1shot | 100 | A |
| Operating junction temperature | T_j | | -40 to +150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | | -40 to +150 | $^\circ\text{C}$ |

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

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

■ Characteristics

