

High Frequency High Voltage Diode

YZPST-HV-37-08F

Characteristics

1. High junction temperature up to 130°C
2. Low forward voltage drop, and small current leakage
3. Avalanche breakdown protection
4. Max reverse recovery time to 70nS
5. Excellent properties against HV surge impact
6. Axial leading wires which are weldable
7. Epoxy package with anti-corrosion properties on surface

Application

- Rectification for microwave oven
- Industrial microwave power supplies
- HF X ray source
- Laser power supply
- Voltage multiplying circuits

- Rectification of power supplies for other electronic devices

1. Main Specification

| No. | Item | Symbol | Unit | Rating | Conditions |
|-----|---------------------------------|-------------|---------|----------|--|
| 1 | Repetitive Peak Reverse Voltage | V_{RRM} | KV | 8 | |
| 2 | Average Forward Current | $I_{F(AV)}$ | mA | 200 | Tamb=60 °C 50HZ Sine-half Wave Rectification Average Value |
| 3 | Forward Surge Current | I_{FSM} | A | 15 | Tamb=25 °C 50HZ Sine-half Wave,One Shot |
| 4 | Reverse Surge Current | I_{RSM} | μA | 5 | |
| 5 | Maximum Junction Temperature | T_{jmax} | °C | 130 | |
| 6 | Storage Temperature | T_{stg} | °C | -40~+130 | |

2. Electric Specification

| NO. | Item | Symbol | Unit | Rating | Test conditions |
|-----|------------------------------------|-----------|---------|--------|-----------------|
| 1 | Forward Voltage Drop | V_{FM} | V | 18max | $I_{FM}=200mA$ |
| 2 | Normal Temperature Reverse Current | I_{RM1} | μA | 5max | $V_{RM}=8KV$ |

| | | | | | |
|---|----------------------------------|-----------|---------|------|--|
| 3 | High Temperature Reverse Current | I_{RM2} | μA | 5max | $T_{amb}=100^{\circ}C$ $V_{RM}=8KV$ |
| 4 | Reverse Breakdown Voltage | V_Z | KV | 8 | $I_R=200mA$ |
| 5 | Reverse Recovery Time | trr | nS | 70 | $I_F=2mA, I_{RM}=4mA$ 90% |

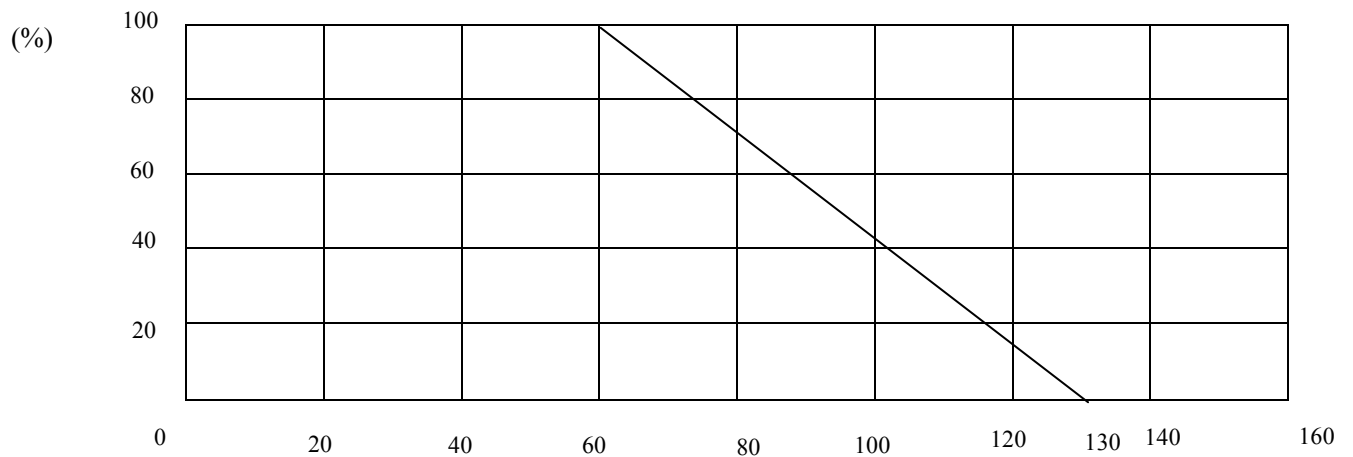
($T_{amb}=25^{\circ}C$, unless otherwise specified)

3. Application

For high voltage rectification;

4. Derating of Forward Current

Ratio to rating



Ambient temperature (°C)

On condition of provision of a fin on cathode side and air cooling)



5. Dimensions (in mm)

