

**PST—CL03-10F ( 3 )****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 80nS
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          | 10       |   |
| 2   | Average Forward Current         | $I_{F(AV)}$ | mA          | 300      | $T_{amb}=60^{\circ}C$<br>50HZ Sine-half Wave<br>Rectification Average Value |
| 3   | Forward Surge Current           | $I_{FSM}$   | A           | 15       | $T_{amb}=25^{\circ}C$<br>50HZ Sine-half Wave, One Shot                      |
| 4   | Reverse Surge Current           | $I_{RSM}$   | $\mu A$     | 5        | Pulse width 1ms triangle wave single pulse                                  |
| 5   | Maximum Junction Temperature    | $T_{jmax}$  | $^{\circ}C$ | 130      |   |
| 6   | Storage Temperature             | $T_{stg}$   | $^{\circ}C$ | -40~+130 |   |

## 2. Electric Specification

| NO. | Item                               | Symbol    | Unit    | Rating | Test conditions                         |
|-----|------------------------------------|-----------|---------|--------|---|
| 1   | Forward Voltage Drop               | $V_{FM}$  | V       | 25     | $I_{FM}=300mA$                          |
| 2   | Normal Temperature Reverse Current | $I_{RM1}$ | $\mu A$ | 5      | $V_{RM}=10KV$                           |
| 3   | High Temperature Reverse Current   | $I_{RM2}$ | $\mu A$ | 5      | $T_{amb}=100^{\circ}C$<br>$V_{RM}=10KV$ |
| 4   | Reverse Breakdown Voltage          | $V_Z$     | KV      | >10    | $I_R=300mA$                             |
| 5   | Reverse Recovery Time              | trr       | nS      | 80     | $I_F=2mA, I_{RM}=4mA$ 90%               |

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

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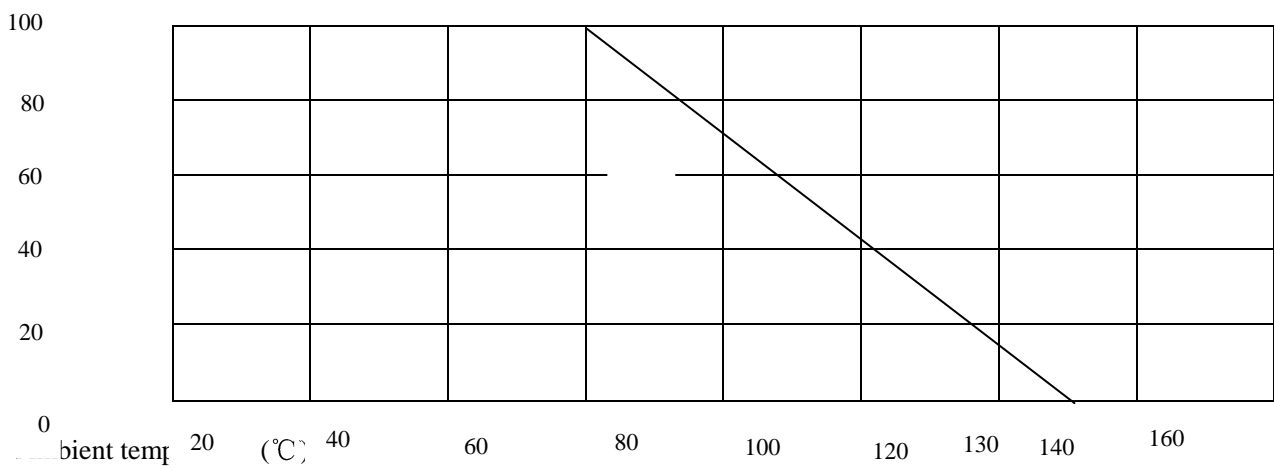
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**3. Application**

For high voltage rectification;

**4. Derating of Forward Current**

Ratio to rating  
(%)



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

**5. Dimensions (in mm)**

