



ELECTRONICS, INC.

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NTE548 Silicon High Voltage Rectifier for Industrial/Microwave Oven

Features:

- Low Cost
- Low Leakage
- Isolated Case
- Surge Overload Rating: 50A Peak
- Low Forward Voltage Drop
- Mounting position: Any

Maximum Ratings and Electrical Characteristics:

(Ratings at $T_A = +25^\circ\text{C}$ unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%)

| | |
|---|-----------------|
| Maximum Recurrent Peak Reverse Voltage, V_{RRM} | 12kV |
| Maximum RMS Voltage, V_{RMS} | 8.4kV |
| Maximum DC Blocking Voltage, V_{DC} | 12kV |
| Maximum Average Forward Rectified Current ($T_A = 50^\circ\text{C}$), I_O | 750mA |
| Peak Forward Surge Current, I_{FSM} (8.3ms single half sine-wave superimposed on rated load) | 50A |
| Maximum Instantaneous Forward Voltage ($I_F = 350\text{mA}$), V_F | 14V |
| Maximum DC Reverse Current ($V_{RRM} = 12\text{kV}$, $T_A = +25^\circ\text{C}$), I_R | 5 μA |
| Operating Junction Temperature Range, T_J | -20° to +135°C |
| Storage Temperature Range, T_{stg} | -20° to +135°C |

