



ELECTRONICS, INC.

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## NTE541 Silicon High Voltage Plastic Rectifier Module for Industrial and Microwave Ovens

### Features:

- Low Leakage
- Isolated Case
- Surge Overload Rating: 50A Peak
- Low Forward Voltage Drop

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

Maximum Recurrent Peak Reverse Voltage, $P_{RV}$ .....	12kV
Maximum RMS Voltage, .....	8.4kV
Maximum DC Blocking Voltage, .....	12kV
Maximum Average Forward Rectified Current ( $T_A = +60^\circ\text{C}$ ), $I_O$ .....	750mA
Peak Forward Surge Current, $I_{FM(\text{Surge})}$ (8.3ms single half sine-wave superimposed on rated load) .....	50A
Maximum Instantaneous Forward Voltage ( $I_O = 750\text{mA}$ ), $V_F$ .....	14V
Maximum DC Reverse Current (at Rated Blocking Voltage, $T_A = +25^\circ\text{C}$ ), $I_R$ .....	5 $\mu\text{A}$
Operating Junction Temperature Range, $T_J$ .....	-20° to +135°C
Storage Temperature Range, $T_{stg}$ .....	-20° to +135°C

