

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 μA
Operating Junction Temperature Range, T_J	-20° to $+135^\circ\text{C}$
Storage Temperature Range, T_{stg}	-20° to $+135^\circ\text{C}$

