



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

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.)

Maximum Peak Reverse Voltage ($I_R = 0.5\mu\text{A}$), V_{RRM}	12kV
Maximum Peak Working Reverse Voltage ($I_R = 0.5\mu\text{A}$), V_{RWM}	12kV
Maximum Non-Repetitive Peak Reverse Voltage ($I_R = 0.5\mu\text{A}$), V_{RSM}	13.2kV
Maximum Average Forward Current (50Hz, $T_A = +50^\circ\text{C}$), I_O	1.0A
Peak Forward Surge Current (50Hz, 0.01S), $I_{FM(\text{Surge})}$	50A
Maximum Reverse Breakdown Voltage ($I_F = 1.0\text{A}$), V_F	18V
Maximum DC Reverse Current (at Rated Blocking Voltage), I_R	
$T_A = +25^\circ\text{C}$	5 μA
$T_A = +80^\circ\text{C}$	50 μA
Maximum Junction Temperature, T_J	+120 $^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40 $^\circ$ to +120 $^\circ\text{C}$

