

## NTE517 Silicon High Voltage Plastic Rectifier for Industrial and Microwave Oven

## Features:

- Controlled Avalanche Characteristic Combined with the Ability to Dissipate Reverse Power
- Low Forward Voltage Drop
- Typical I<sub>R</sub> less than 0.1μA
- High Overload Surge Capacity

Maximum Ratings and Electrical Characteristics: (T<sub>A</sub> = +25°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, Park

Maximum Recurrent Peak Reverse Voltage, P <sub>RV</sub>
Maximum RMS Voltage,
Maximum DC Blocking Voltage,
Maximum Average Forward Rectified Current (T <sub>A</sub> = +60°C), I <sub>O</sub>
Peak Forward Surge Current, I <sub>FM(Surge)</sub> (8.3ms Single Half Sine–Wave Superimposed on Rated Load)
(8.3ms Single Half Sine–Wave Superimposed on Rated Load)
Maximum Peak Reverse Surge Current (Note 1), I <sub>FRM(Surge)</sub> 100mA
Maximum Instantaneous Forward Voltage ( $I_O = 550 \text{mÅ}$ ), $V_F$
Maximum DC Reverse Current (at Rated Blocking Voltage),I <sub>R</sub>
Operating Junction Temperature Range, T <sub>J</sub>
Storage Temperature Range, T <sub>stq</sub> 40° to +130°C
Maximum Thermal Resistance, Junction–to–Ambient (Note 2), R <sub>thJA</sub>

- Note 1. Measured at 8.3ms single half sine—wave, single pulse.
- Note 2. Thermal Resistance from Junction to Ambient at .375" (9.5mm) lead lengths.

