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_R less than 0.1μA
- High Overload Surge Capacity

Maximum Ratings and Electrical Characteristics: (T_A = +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, P_{RV} .......................................................... 15000V
- Maximum RMS Voltage, ................................................................. 10500V
- Maximum DC Blocking Voltage, .......................................................... 15000V
- Maximum Average Forward Rectified Current (T_A = +60°C), I_O ....................................... 550mA
- Peak Forward Surge Current, I_{FM(Surge)} (8.3ms Single Half Sine-Wave Superimposed on Rated Load) .......................................................... 50A
- Maximum Peak Reverse Surge Current, I_{FRM(Surge)} .................................................. 100mA
- Maximum Instantaneous Forward Voltage (I_O = 550mA), V_F ........................................... 14V
- Maximum DC Reverse Current (at Rated Blocking Voltage), I_R ......................................... 5μA
- Operating Junction Temperature Range, T_J ................................................... -65° to +150°C
- Storage Temperature Range, T_{stg} ................................................... -65° to +150°C
- Maximum Thermal Resistance, Junction–to–Ambient (Note 1), R_{thJA} ............................. 18°C/W
- Lead Temperature (During Soldering, 3/8” from body, 10sec), T_L .................................. +260°C
- Reverse Recovery Time ................................................................. 100nS

Note 1. Thermal Resistance from Junction to Ambient at .375” (9.5mm) lead lengths.

Color Band Denotes Cathode