

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

### Features:

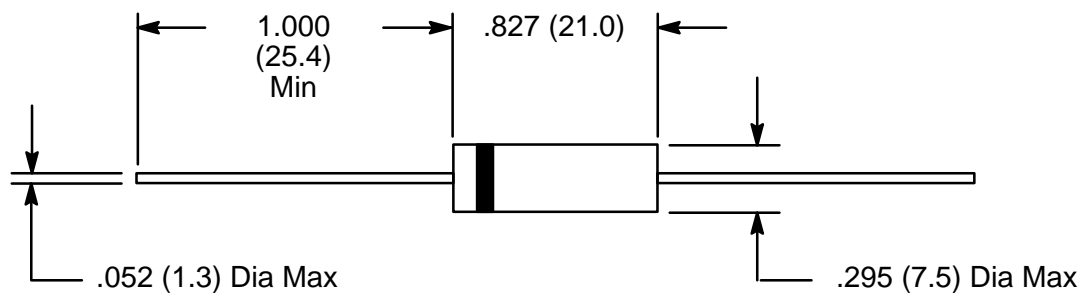
- Controlled Avalanche Characteristic Combined with the Ability to Dissipate Reverse Power
- Low Forward Voltage Drop
- Typical  $I_R$  less than  $0.1\mu A$
- High Overload Surge Capacity

**Maximum Ratings and Electrical Characteristics:** ( $T_A = +25^\circ C$  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 ( $T_A = +60^\circ C$ ), $I_O$ .....	550mA
Peak Forward Surge Current, $I_{FM(Surge)}$ (8.3ms Single Half Sine-Wave Superimposed on Rated Load) .....	200A
Maximum Peak Reverse Surge Current (Note 1), $I_{FRM(Surge)}$ .....	100mA
Maximum Instantaneous Forward Voltage ( $I_O = 550mA$ ), $V_F$ .....	10V
Maximum DC Reverse Current (at Rated Blocking Voltage), $I_R$ .....	$5\mu A$
Operating Junction Temperature Range, $T_J$ .....	$-40^\circ$ to $+130^\circ C$
Storage Temperature Range, $T_{stg}$ .....	$-40^\circ$ to $+130^\circ C$
Maximum Thermal Resistance, Junction-to-Ambient (Note 2), $R_{thJA}$ .....	$18^\circ C/W$

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.



Color Band Denotes Cathode