

NTE572 Silicon Rectifier General Purpose, Fast Recovery

Features:

- Fast Switching
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- High Current Surge
- High Reliability

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	1000V
Maximum RMS Voltage	700V
Maximum DC Blocking Voltage	1000V
Maximum Average Forward Rectified Current (.375" (9.5mm) lead length, $T_A = +55^\circ\text{C}$)	6A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load) ...	300A
Maximum Instantaneous Forward Voltage ($I_F = 6\text{A DC}$)	1.3V
Maximum DC Reverse Current (At Rated DC Blocking Voltage, $T_A = +25^\circ\text{C}$)	10 μA
Maximum Full Load Reverse Current (Full Cycle Average .375" (9.5mm) lead length, $T_L = +55^\circ\text{C}$)	150 μA
Maximum Reverse Recovery Time (Note 1)	500ns
Typical Junction Capacitance (Note 2)	100pF
Operating Junction Temperature Range, T_J	-65° to $+175^\circ\text{C}$
Storage Temperature Range, T_{stg}	-65° to $+175^\circ\text{C}$

Note 1. Reverse Recovery Test Conditions: $I_F = 500\text{mA}$, $I_R = 1\text{A}$, $I_{RR} = 250\text{mA}$.

Note 2. Measured at 1MHz and applied reverse voltage of 4.0 volts.

