

NTE587 Silicon Diode Ultra Fast Switch

Features:

- Super Fast Switching Speed
- High Current Capability
- High Surge Current Capability
- Low Forward Voltage Drop
- High Reliability
- DO41 Type Package

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	200V
Maximum RMS Voltage	140V
Maximum Average Forward Rectified Current ($T_A = +55^{\circ}\text{C}$)	1.0A
Peak Forward Surge Current (8.3ms single half wave superimposed on rated load)	30A
Maximum Forward Voltage Drop ($I_O = 1\text{A}$)	0.95V
Maximum DC Reverse Current ($V_{DC} = 200\text{V}$)	5 μA
Maximum DC Reverse Current ($V_{DC} = 200\text{V}$, $T_A = +150^{\circ}\text{C}$)	50 μA
Maximum Reverse Recovery Time (Note 1)	35ns
Typical Junction Capacitance (Note 2)	53pF
Operating Temperature Range, T_{opr}	-65° to $+150^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	-65° to $+150^{\circ}\text{C}$

Note 1. Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.

Note 2. Measured at 1MHz and applied reverse voltage of 4V.

