



ELECTRONICS, INC.

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NTE5390 thru NTE5394 Silicon Bridge Rectifier, 35A

Features:

- Low Leakage
- Low Forward Voltage
- High Forward Surge Current Capability
- Surge Overload Rating: 300A Peak
- Mounting Position: Any

Maximum Ratings and Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified.
Single Phase, Half Wave, 60Hz, Resistive or Inductive Load, Note 1.)

Maximum Recurrent Peak Reverse Voltage, V_{RRM}

NTE5390	200V
NTE5391	400V
NTE5392	600V
NTE5393	800V
NTE5394	1000V

Maximum RMS Bridge Input Voltage, V_{RMS}

NTE5390	140V
NTE5391	280V
NTE5392	420V
NTE5393	560V
NTE5394	700V

Maximum DC Blocking Voltage, V_{DC}

NTE5390	200V
NTE5391	400V
NTE5392	600V
NTE5393	800V
NTE5394	1000V

Maximum Average Forward Rectified Output Current ($T_A = +100^\circ\text{C}$), $I_{O(AV)}$ 35A

Peak Forward Surge Current (8.3ms single half wave superimposed on rated load), I_{FSM} 300A

Maximum Forward Voltage Drop (Per element at 17.5A), V_F 1.1V

Maximum Reverse Current at Rated DC Blocking Voltage Per Element, I_R

$T_A = +25^\circ\text{C}$	5 μA
$T_A = +100^\circ\text{C}$	0.2mA

Operating Temperature Range, T_J -55° to +150°C

Storage Temperature Range, T_{stg} -55° to +150°C

Note 1. For capacitive load, derate current by 20%.

