



ELECTRONICS, INC.
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NTE53022 thru NTE53028 Bridge Rectifier, Single Phase, Glass Passivated, 35A

Features:

- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Heatsink Integrated Epoxy Case for Maximum Heat Dissipation
- Low Thermal Resistance
- High Surge Current Capability
- Mounting: Through Hole with #10 Screw

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}

NTE53022	200V
NTE53026	600V
NTE53028	1000V

Working Peak Reverse Voltage, V_{RWM}

NTE53022	200V
NTE53026	600V
NTE53028	1000V

Maximum RMS Bridge Input Voltage, V_{RMS}

NTE53022	140V
NTE53026	420V
NTE53028	700V

Maximum DC Blocking Voltage, V_{DC}

NTE53022	200V
NTE53026	600V
NTE53028	1000V

Maximum Average Forward Rectified Output Current ($T_C = +55^\circ\text{C}$), $I_{O(AV)}$ 35A

Peak Forward Surge Current (8.3ms single half wave superimposed on rated load), I_{FSM} 400A

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

$T_A = +25^\circ\text{C}$	10 μA
$T_A = +125^\circ\text{C}$	500 μA

I^2t Rating for Fusing ($t < 8.3\text{ms}$), I^2t 660A²s

Typical Junction Capacitance (Note 2), C_j 300pF

Typical Thermal Resistance, Junction-to-Case (Per element, Note 3), R_{thJC} 1.4 $^\circ\text{C/W}$

RMS Isolation Voltage from Case to Leads, V_{ISO} 2500V

Operating Temperature Range, T_J -65 $^\circ$ to +150 $^\circ\text{C}$

Storage Temperature Range, T_{stg} -65 $^\circ$ to +150 $^\circ\text{C}$

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

Note 2. Measured at 1.0MHz and applied reverse voltage of 4.0VDC.

Note 3. Thermal resistance, junction-to-case, mounted on a 241 x 89 x 117mm Al heatsink.

Rev. 7-19



