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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 $\mu\text{A}$
$T_A = +125^\circ\text{C}$	500 $\mu\text{A}$
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ ), $I^2t$	660A <sup>2</sup> s
Typical Junction Capacitance (Note 2), $C_j$	300pF
Typical Thermal Resistance, Junction-to-Case (Per element, Note 3), $R_{thJC}$	1.4 $^\circ\text{C}/\text{W}$
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.



