



**ELECTRONICS, INC.**  
 44 FARRAND STREET  
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## NTE5312 thru NTE5317 Single Phase Bridge Rectifier 8 Amp

**Features:**

- Low Forward Voltage Drop
- Surge Overload Rating: 200A (Peak)
- Mounting Hole Thru for #6 Screw

**Maximum Ratings and Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified. Single Phase, Full Wave, 60Hz, Resistive or Inductive Load. For Capacitive Load, Derate Current by 20%)

Maximum Recurrent Peak Reverse Voltage,  $P_{RV}$

NTE5312 .....	100V
NTE5313 .....	200V
NTE5314 .....	400V
NTE5315 .....	600V
NTE5316 .....	800V
NTE5317 .....	1000V

Maximum RMS Bridge Input Voltage,

NTE5312 .....	70V
NTE5313 .....	140V
NTE5314 .....	280V
NTE5315 .....	420V
NTE5316 .....	560V
NTE5317 .....	700V

Maximum DC Blocking Voltage,

NTE5312 .....	100V
NTE5313 .....	200V
NTE5314 .....	400V
NTE5315 .....	600V
NTE5316 .....	800V
NTE5317 .....	1000V

Maximum Average Forward Output Current ( $T_C = +75^\circ\text{C}$ ),  $I_{F(AV)}$  ..... 8A

Peak Forward Surge Current,  $I_{FSM}$

(8.3ms Single Sine-Wave Superimposed on Rated Load) ..... 200A

Maximum Forward Voltage Drop (Per Bridge Element,  $I_F = 4A$ ),  $V_F$  ..... 1.1V

Maximum Reverse Current (at Rated DC Blocking Voltage per Element),  $I_R$

$T_A = +25^\circ\text{C}$ .....	10 $\mu$ A
$T_A = +100^\circ\text{C}$ .....	1mA

Operating Junction Temperature Range,  $T_J$  .....  $-55^\circ$  to  $+125^\circ\text{C}$

Storage Temperature Range,  $T_{stg}$  .....  $-55^\circ$  to  $+150^\circ\text{C}$

