



ELECTRONICS, INC.

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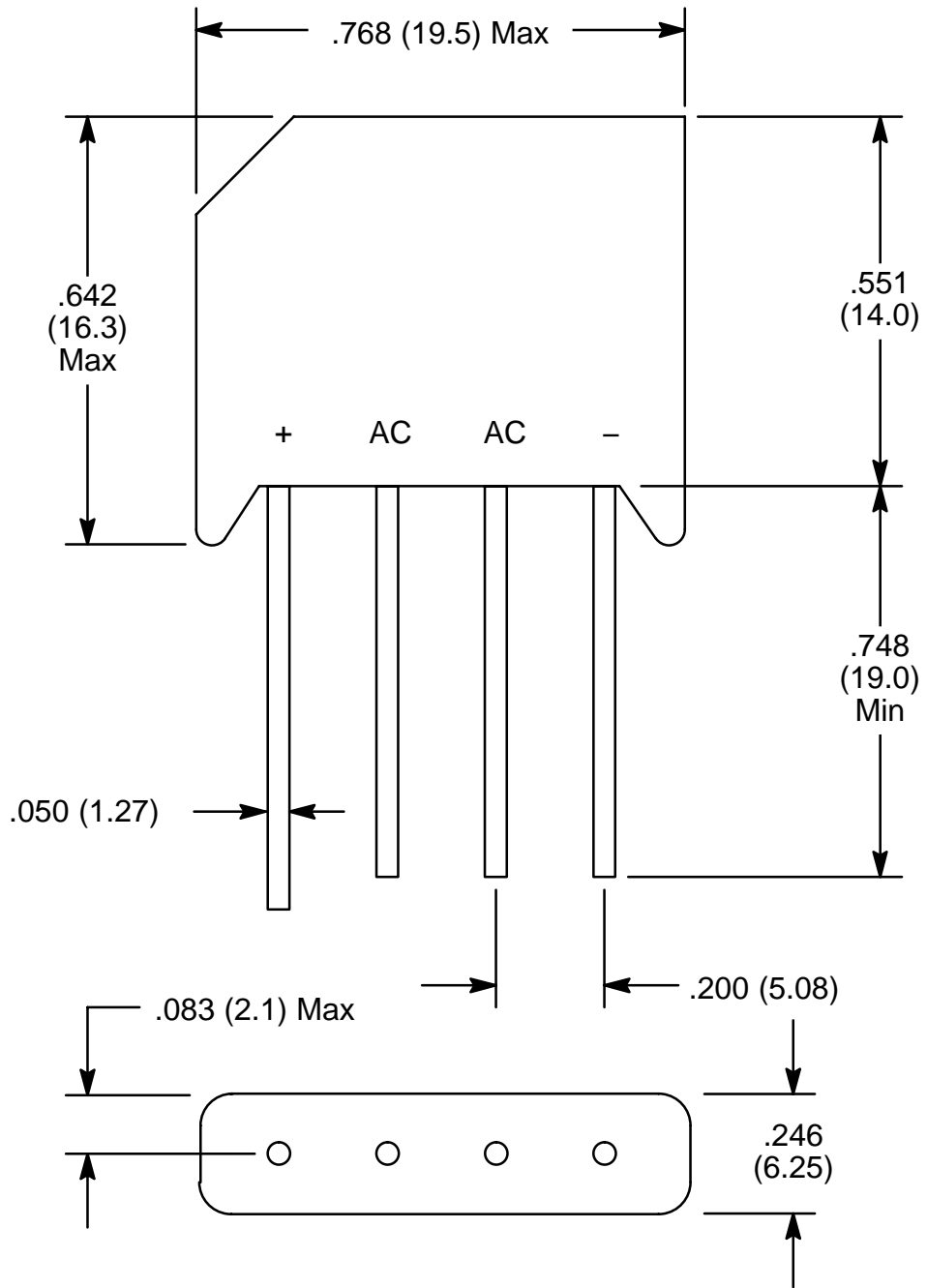
NTE5309 thru NTE5311 Single Phase Bridge Rectifier 4 Amp

Features:

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal For Printed Circuit Boards

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%)

| | |
|--|---------------------|
| Peak Repetitive Reverse Voltage, V_{RRM} | |
| NTE5309 | 200V |
| NTE5310 | 600V |
| NTE5311 | 1000V |
| Working Peak Reverse Voltage, V_{RWM} | |
| NTE5309 | 200V |
| NTE5310 | 600V |
| NTE5311 | 1000V |
| DC Blocking Voltage, V_R | |
| NTE5309 | 200V |
| NTE5310 | 600V |
| NTE5311 | 1000V |
| RMS Reverse Voltage, $V_{R(RMS)}$ | |
| NTE5309 | 140V |
| NTE5310 | 420V |
| NTE5311 | 700V |
| Average Rectified Output Current ($T_C = +75^\circ\text{C}$), I_O | 4A |
| Non-Repetitive Peak Forward Surge Current, I_{FSM} | |
| (8.3ms Single Half Sine-Wave Superimposed on Rated Load) | 150A |
| Forward Voltage Drop (Per Bridge Element, $I_F = 2A$), V_{FM} | 1.1V |
| Peak Reverse Current (at Rated DC Blocking Voltage per Element), I_R | |
| $T_C = +25^\circ\text{C}$ | 10 μ A |
| $T_C = +100^\circ\text{C}$ | 1mA |
| Rating fo Fusing ($t < 8.3\text{ms}$, Note 1), I^2t | 166A ² s |
| Typical Thermal Resistance, Junction-to-Case (Note 2), R_{thJC} | 19K/W |
| Operating Junction Temperature Range, T_J | -65° to +125°C |
| Storage Temperature Range, T_{stg} | -65° to +125°C |



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