RoHS
2002/95/EC

NTE53006 thru NTE53010
Silicon Bridge Rectifier, 15A

Features:

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for PC Boards
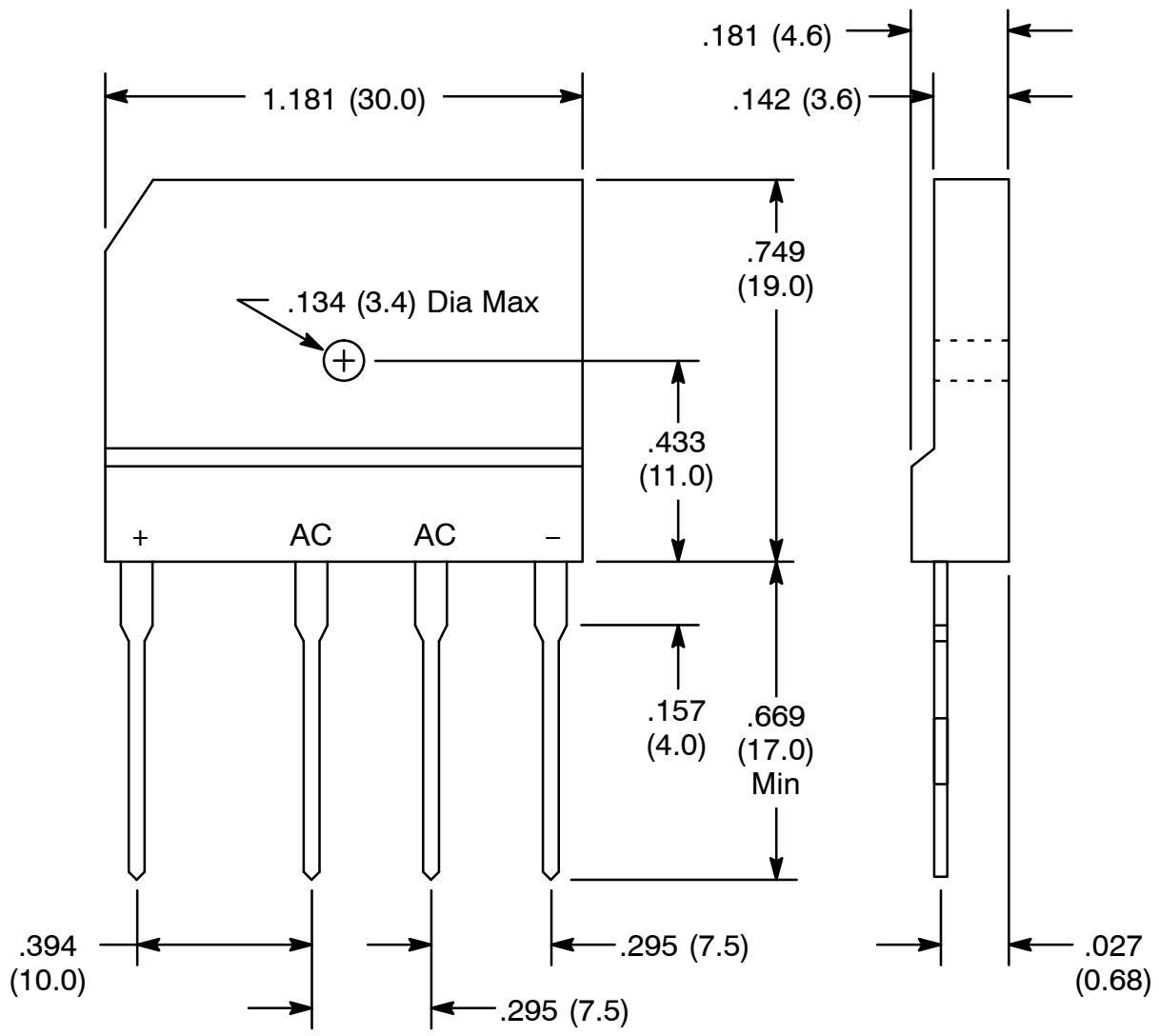- Mounting Position: Any

Maximum Ratings and Electrical Characteristics: (T_A = +25°C unless otherwise specified. Single Phase, Half Wave, 60Hz, Resistive or Inductive Load, Note 1.)

Maximum Recurrent Peak Reverse Voltage, V_{RRM}

NTE53006 . . . . 200V

NTE53008 . . . . 600V

NTE53010 . . . . 1000V

Working Peak Reverse Voltage, V_{RWM}

NTE53006 . . . . 200V

NTE53008 . . . . 600V

NTE53010 . . . . 1000V

Maximum RMS Bridge Input Voltage, V_{RMS}

NTE53006 . . . . 140V

NTE53008 . . . . 420V

NTE53010 . . . . 700V

Maximum DC Blocking Voltage, V_{DC}

NTE53006 . . . . 200V

NTE53008 . . . . 600V

NTE53010 . . . . 1000V

Maximum Average Forward Rectified Output Current (T_C = +100°C, Note 2), $I_{O(AV)}$ 15A

Peak Forward Surge Current (8.3ms single half wave superimposed on rated load), I_{FSM} . . . 240A

Maximum Forward Voltage Drop (Per element at 7.5A), V_F 1.05V

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

T_A = +25°C 10μA

T_A = +125°C 250μA

Typical Thermal Reskistance (Per element)

Junction–to–Ambient (Note 3), R_{thJA} . . . . 22°C/W

Junction–to–Case (Note 2), R_{thJC} . . . . 1.5°C/W

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%.

Note 2. Device mounted on a 300mm x 300mm x 1.6mm thick Cu plate heatsink.

Note 3. Device mounted on a PC board without heatsink.

.181 (4.6)

.142 (3.6)

1.181 (30.0)

.134 (3.4) Dia Max

.749
(19.0)

.433
(11.0)

+ AC AC −

.157
(4.0)

.669
(17.0)
Min

.394
(10.0)

.295 (7.5)

.295 (7.5)

.027
(0.68)

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