NTE ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089

NTE5329 thru NTE5331
Single Phase Bridge Rectifier
6 Amp

Features:

- High Case Dielectric Strength of 1500V_{RMS}
- Surge Overload Rating: 250A (Peak)
- Ideal for Printed Circuit Board
- Reliable Construction Utilizing Molded Plastic Technique
- Glass Passivated Chip Junctions

Maximum Ratings and Electrical Characteristics: (T_A = +25°C unless otherwise specified. 60Hz Resistive or Inductive Load. For Capacitive Load, Derate Current by 20%)

Maximum Recurrent Peak Reverse Voltage, P_{RV}
- NTE5329 . . . . . 200V
- NTE5330 . . . . . 600V
- NTE5331 . . . . . 1000V

Maximum RMS Voltage, V_{RMS}
- NTE5329 . . . . . 140V
- NTE5330 . . . . . 420V
- NTE5331 . . . . . 700V

Maximum DC Blocking Voltage, V_{DC}
- NTE5329 . . . . . 200V
- NTE5330 . . . . . 600V
- NTE5331 . . . . . 1000V

Maximum Average Forward Output Current, $I_{F(AV)}$
- T_C = +100°C 6A
- T_A = +40°C 6A

Peak Forward Surge Current, I_{FSM}
- (Half Sine–Wave Superimposed on Rated Load) 250A

Maximum Instantaneous Forward Voltage Drop (Per Bridge Element, I_F = 6A), V_F 1.0V

Maximum DC Reverse Current (at Rated DC Blocking Voltage per Element), I_R
- T_A = +25°C 5µA
- T_A = +125°C 1mA

Operating Junction Temperature Range, T_J . . . . . –50° to +150°C

Storage Temperature Range, T_{stg} . . . . . –50° to +150°C

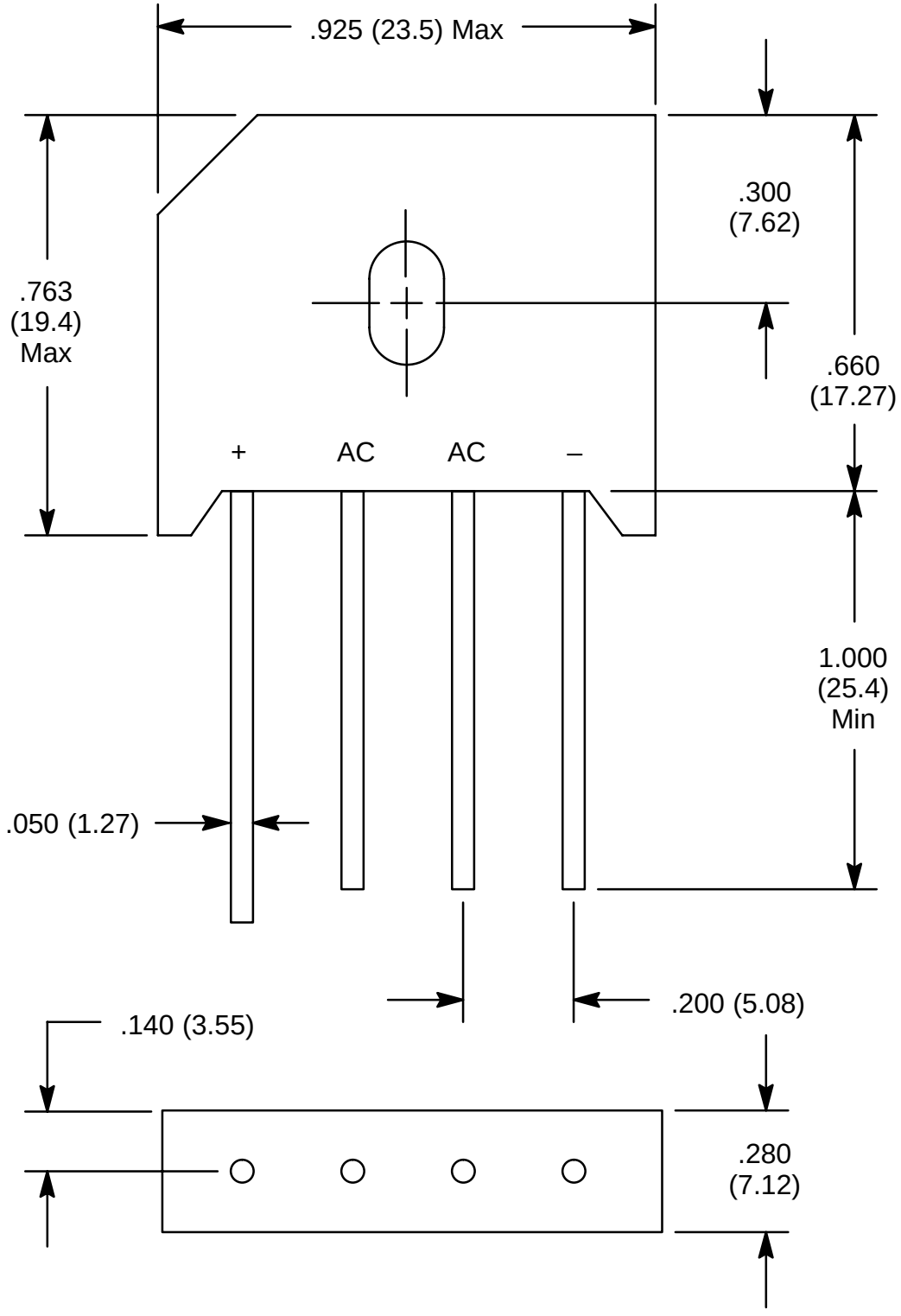
Thermal Resistance, Junction to Case (Note 1), $R_{\Theta JC}$ . . . . . 4.7°C/W

Thermal Resistance, Junction to Ambient (Note 2), $R_{\Theta JA}$ . . . . . 4.7°C/W

Note 1. Mounted on a 2.6” x 1.4” x 0.06” THK (6.5cm. x 3.5cm. x 1.5cm.) Al. Plate

Note 2. P.C. Board mounted on 0.5” sq. (12mm^2) Cu. pads, .375” (9.5mm) lead lengths

Note 3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.


.925 (23.5) Max
.300
(7.62)
.763
(19.4)
Max
.660
(17.27)
+
AC
AC
–
1.000
(25.4)
Min
.050 (1.27)
.200 (5.08)
.140 (3.55)
.280
(7.12)