



ELECTRONICS, INC.
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NTE5329 thru NTE5331 Single Phase Bridge Rectifier 6 Amp

Features:

- High Case Dielectric Strength of 1500V_{RMS}
- Surge Overload Rating: 175A (Peak)
- Ideal for Printed Circuit Board
- Reliable Construction Utilizing Molded Plastic Technique

Maximum Ratings and Electrical Characteristics: ($T_A = +25^\circ\text{C}$ 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, $I_{F(AV)}$

$T_C = +100^\circ\text{C}$	6A
$T_A = +40^\circ\text{C}$	6A

Peak Forward Surge Current, I_{FSM}

(Half Sine-Wave Superimposed on Rated Load) 175A

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

$T_A = +25^\circ\text{C}$	5 μ A
$T_A = +125^\circ\text{C}$	1mA

Operating Junction Temperature Range, T_J -50° to $+150^\circ\text{C}$

Storage Temperature Range, T_{stg} -50° to $+150^\circ\text{C}$

Thermal Resistance, Junction-to-Case (Note 1), R_{thJC} 4.7°C/W

Thermal Resistance, Junction-to-Ambient (Note 2), R_{thJA} 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. (12mm²) 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.

