



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

**Features:**

- High Case Dielectric Strength of 1500V<sub>RMS</sub>
- 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:** ( $T_A = +25^\circ\text{C}$  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) .....	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), $I_R$	
$T_A = +25^\circ\text{C}$ .....	5 $\mu$ A
$T_A = +125^\circ\text{C}$ .....	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<sup>2</sup>) 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.

