



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: 250A (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)	
	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 μ 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. (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.

