



**ELECTRONICS, INC.**  
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## NTE166 thru NTE170 Single Phase Bridge Rectifier 2.0 Amp

**Features:**

- Ideal for Printed Circuit Board
- Surge Overload Rating: 50A (Peak)

**Maximum Ratings and Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified. Single Phase, Full Wave, 60Hz, Resistive or Inductive Load. For Capacitive Load, Derate Current by 20%)

Maximum Recurrent Peak Reverse Voltage,  $P_{RV}$

NTE166 .....	100V
NTE167 .....	200V
NTE168 .....	400V
NTE169 .....	600V
NTE170 .....	1000V

Maximum RMS Bridge Input Voltage,

NTE166 .....	70V
NTE167 .....	140V
NTE168 .....	280V
NTE169 .....	420V
NTE170 .....	700V

Maximum DC Blocking Voltage,

NTE166 .....	100V
NTE167 .....	200V
NTE168 .....	400V
NTE169 .....	600V
NTE170 .....	1000V

Maximum Average Forward Output Current ( $T_A = +50^\circ\text{C}$ ),  $I_{F(AV)}$  ..... 2A

Peak Forward Surge Current,  $I_{FSM}$

(8.3ms Single Sine-Wave Superimposed on Rated Load) ..... 50A

Maximum Forward Voltage Drop (Per Bridge Element,  $I_F = 1\text{A}$ ),  $V_F$  ..... 1V

Maximum Reverse Current (at Rated DC Blocking Voltage per Element),  $I_R$

$T_A = +25^\circ\text{C}$ .....	10 $\mu\text{A}$
$T_A = +100^\circ\text{C}$ .....	1mA

Operating Junction Temperature Range,  $T_J$  .....  $-55^\circ$  to  $+125^\circ\text{C}$

Storage Temperature Range,  $T_{stg}$  .....  $-55^\circ$  to  $+150^\circ\text{C}$

