



## 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  $+150^\circ\text{C}$

