

## NTE5390 thru NTE5394 Silicon Bridge Rectifier, 35A

### **Features:**

- Low Leakage
- Low Forward Voltage
- High Forward Surge Current Capability
- Surge Overload Rating: 300A Peak
- Mounting Position: Any

**Maximum Ratings and Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified.  
Single Phase, Half Wave, 60Hz, Resistive or Inductive Load, Note 1.)

Maximum Recurrent Peak Reverse Voltage,  $V_{RRM}$

|         |       |
|---------|-------|
| NTE5390 | 200V  |
| NTE5391 | 400V  |
| NTE5392 | 600V  |
| NTE5393 | 800V  |
| NTE5394 | 1000V |

Maximum RMS Bridge Input Voltage,  $V_{RMS}$

|         |      |
|---------|------|
| NTE5390 | 140V |
| NTE5391 | 280V |
| NTE5392 | 420V |
| NTE5393 | 560V |
| NTE5394 | 700V |

Maximum DC Blocking Voltage,  $V_{DC}$

|         |       |
|---------|-------|
| NTE5390 | 200V  |
| NTE5391 | 400V  |
| NTE5392 | 600V  |
| NTE5393 | 800V  |
| NTE5394 | 1000V |

Maximum Average Forward Rectified Output Current ( $T_A = +100^\circ\text{C}$ ),  $I_{O(AV)}$  . . . 35A

Peak Forward Surge Current (8.3ms single half wave superimposed on rated load),  $I_{FSM}$  . . . 300A

Maximum Forward Voltage Drop (Per element at 17.5A),  $V_F$  . . . 1.1V

Maximum Reverse Current at Rated DC Blocking Voltage Per Element,  $I_R$

|                            |                 |
|----------------------------|-----------------|
| $T_A = +25^\circ\text{C}$  | 5 $\mu\text{A}$ |
| $T_A = +100^\circ\text{C}$ | 0.2mA           |

Operating Temperature Range,  $T_J$  . . . -55° to +150°C

Storage Temperature Range,  $T_{stg}$  . . . -55° to +150°C

Note 1. For capacitive load, derate current by 20%.

