



ELECTRONICS, INC.  
 44 FARRAND STREET  
 BLOOMFIELD, NJ 07003  
 (973) 748-5089  
<http://www.nteinc.com>



## NTE5300 thru NTE5303 Silicon Bridge Rectifier, 8A

### Features:

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

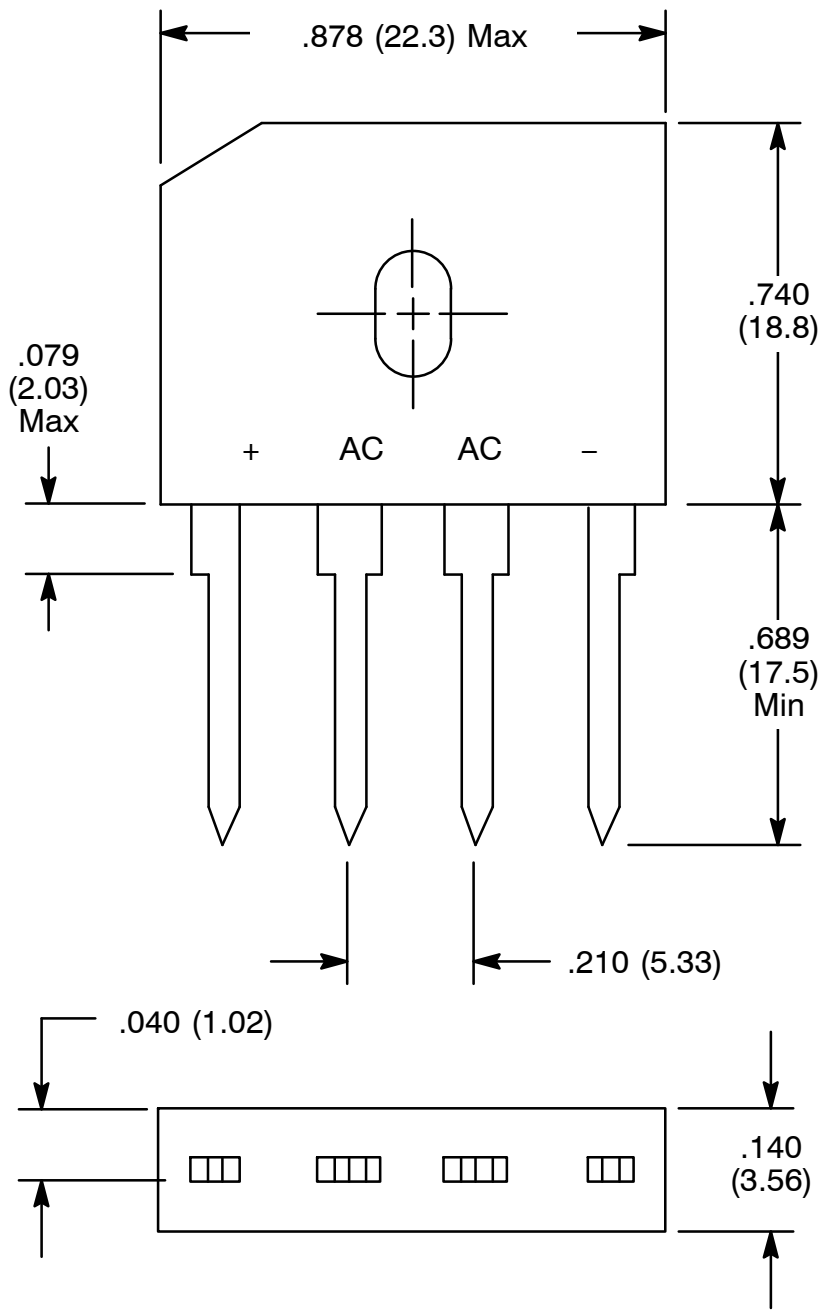
**Maximum Ratings and Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified.  
 Single Phase, Half Wave, 60Hz, Resistive or Inductive Load, Note 1.)

Peak Repetitive Reverse Voltage, $V_{RRM}$	
NTE5300	200V
NTE5301	600V
NTE5302	800V
NTE5303	1000V
Working Peak Reverse Voltage, $V_{RWM}$	
NTE5300	200V
NTE5301	600V
NTE5302	800V
NTE5303	1000V
DC Blocking Voltage, $V_R$	
NTE5300	200V
NTE5301	600V
NTE5302	800V
NTE5303	1000V
Maximum RMS Bridge Input Voltage, $V_{R(RMS)}$	
NTE5300	140V
NTE5301	420V
NTE5302	560V
NTE5303	700V
Average Rectified Output Current, $I_O$	
$T_A = +100^\circ\text{C}$	8A
$T_A = +45^\circ\text{C}$	6A
Peak Forward Surge Current (8.3ms single half wave superimposed on rated load), $I_{FSM}$	200A
$I^2t$ Rating for Fusing ( $t < 8.35\text{ms}$ ), $I^2t$	166A <sup>2</sup> s
Maximum Forward Voltage Drop (Per element at 8A), $V_{FM}$	1.0V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element, $I_R$	
$T_A = +25^\circ\text{C}$	5.0 $\mu\text{A}$
$T_A = +100^\circ\text{C}$	500 $\mu\text{A}$
Operating Temperature Range, $T_J$	-55° to +150°C
Storage Temperature Range, $T_{stg}$	-55° to +150°C
Typical Thermal Resistance, Junction-to-Ambient (Note 2), $R_{thJA}$	18K/W
Typical Thermal Resistance, Junction-to-case (Note 3), $R_{thJC}$	3K/W

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

Note 2. Mounted on PCB at 9.5mm lead length with 12mm<sup>2</sup> copper pads.

Note 3. Mounted on a 7.5 x 7.5 x 3.0cm thick AL plate.



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