



ELECTRONICS, INC.

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## NTE6154 thru NTE6165 Silicon Industrial Rectifier, 150 Amp, General Purpose

### Description:

The NTE6154 through NTE6165 power rectifiers are stud mounted DO8 type packages. Because the silicon junction is carefully fitted within a glass-to-metal hermetically sealed case, reliable operation is assured even with extreme humidity and under other severe environmental conditions.

These power rectifiers are ideal for a broad range of commercial uses including power supplies, ultrasonic systems, inverters, welders, emergency generators, battery chargers, DC motors, and motor controls.

### Features:

- Standard DO8 Type Package
- Available in Standard (Cathode to Case) and Reverse (Anode to Case) Polarity
- Recommended Stud Mounting Torque: 120in. lbs. Lubricated.

### Electrical Ratings:

Peak Reverse Voltage, $P_{RV}$	
NTE6154, NTE6155*	400V
NTE6156, NTE6157*	600V
NTE6158, NTE6159*	1000V
NTE6162, NTE6163*	1400V
NTE6164, NTE6165*	1600V
Maximum Forward Current Single Phase Half Wave ( $T_C = +125^\circ\text{C}$ ), $I_O$	150A
Maximum Surge Current, Single Cycle, $I_{FSM}$	2100A
Maximum Forward Voltage Drop ( $T_C = +25^\circ\text{C}$ , $I_O = 200\text{A}$ ), $V_F$	1.1V
Maximum Reverse Current (FCA @ $+150^\circ\text{C}$ ), $I_R$	5mA
Maximum $I^2t$ for Fusing (less than 8ms)	18200A <sup>2</sup> Sec
Reverse Power for Bulk Available	1.0Joules
Storage Temperature Range, $T_{stg}$	$-65^\circ$ to $+200^\circ\text{C}$
Operating Temperature Range, $T_{opr}$	$-65^\circ$ to $+190^\circ\text{C}$
Maximum Thermal Impedance (Junction-to-Case)	0.35 $^\circ\text{C/W}$ Max

\* Indicates Anode to Case polarity

