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## NTE6156 & NTE6157 Silicon Industrial Rectifier 150 Amp, DO8

### Description:

The NTE6156 and NTE6157 are power rectifiers in a stud mounted DO8 type package. 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:

- Alloy Diode
- Standard DO8 Type Package
- Available in Cathode to Case (NTE6156) and Anode to Case (NTE6157) Polarity
- Recommended Stud Mounting Torque (Non-Lubricated): 2.0 M-Kg (Min) – 3.0 M-Kg (Max)

### Applications:

- Welders
- Power Supplies
- Motor Controls
- Battery Chargers
- General Industrial Current Rectification

### Electrical Ratings:

Maximum Repetitive Peak Reverse Voltage, $V_{RRM}$ .....	600V
Maximum Non-Repetitive Peak Reverse Voltage, $V_{RSM}$ .....	700V
Maximum RMS Reverse Voltage, $V_{R(RMS)}$ .....	420V
Maximum DC Blocking Voltage, $V_R$ .....	600V
Recommended RMS Working Voltage .....	240V
Maximum Peak Reverse Leakage Current ( $V_{RRM} = 600V$ , $T_C = +130^\circ C$ ), $I_{RM}$ .....	12mA
Maximum Average Forward Current ( $T_C = +130^\circ C$ ), $I_{F(AV)}$ .....	150A
Maximum Peak Forward Voltage Drop (At Rated $I_{F(peak)}$ ), $V_{FM}$ .....	1.4V
Maximum Peak One Cycle (Non-Repetitive) Surge Current (10ms), $I_{FSM}$ .....	3570A
Maximum Repetitive Peak Forward Current, $I_{FRM}$ .....	750A
Maximum $I^2t$ (Non-Repetitive) for Fusing (10ms) .....	64000A <sup>2</sup> Sec
Maximum Forward Current Single Phase Half Wave ( $T_C = +125^\circ C$ ), $I_O$ .....	150A
Storage Temperature Range, $T_{stg}$ .....	-40° to +200°C
Operating Junction Temperature Range, $T_J$ .....	-40° to +200°C
Maximum Thermal Resistance, Junction-to-Case, $R_{thJC}$ .....	0.25°C/W Max

