



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

NTE5335 & NTE5338 3-Phase Bridge Rectifier

Description:

The NTE5335 and NTE5338 3-Phase bridge rectifiers incorporate highly efficient thermal management to provide high surge capability, extended life, and reliable performance. Available in an industry standard screw-mount package, these devices provide 2500V_{rms} from all terminals to the baseplate.

Features:

- High Surge Current Rectifier Circuits

Typical Applications:

- Inverter
- Inductive Heating
- Chopper

Electrical Characteristics:

Repetitive Peak Reverse Voltage ($T_J = +150^\circ\text{C}$, $t_p = 10\text{ms}$), V_{RRM} 600V

Maximum DC Output Current ($T_C = +85^\circ\text{C}$), I_O

NTE5335 60A

NTE5338 100A

Maximum Repetitive Peak Current (at V_{RRM} , $T_J = +150^\circ\text{C}$), I_{RRM} 8mA

Maximum Surge Forward Current ($T_J = +25^\circ\text{C}$, Half Sine Wave, 10ms, $V_R = 0.6V_{RRM}$), I_{TSM} 1.5KA

Maximum I^2t for Fusing ($T_J = +25^\circ\text{C}$, Half Sine Wave, 10ms, $V_R = 0.6V_{RRM}$), I^2t 9.5A²s*10³

Maximum Threshold Voltage ($T_J = +150^\circ\text{C}$), V_{FO} 0.8V

Maximum Forward Slope Resistance ($T_J = +150^\circ\text{C}$), r_F 4.5mΩ

Maximum Peak Forward Voltage ($T_J = +25^\circ\text{C}$, $I_{FM} = 100$), V_{FM} 1.3V

Isolation Voltage (50Hz RMS, $t = 1\text{min}$, $I_{SOL} = 1\text{mA Max}$), V_{ISOL} 2500V_{rms}

Maximum Thermal Resistance (Single Side Cooled), Junction-to-Case, R_{thJC} 0.3°C/W

Maximum Thermal Resistance (Single Side Cooled), Case-to-Heat Sink, R_{thCH} 0.05°C/W

Storage Temperature Range, T_{stg} -40° to +125°C

