



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
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NTE5710 thru NTE5712 NTE5720 thru NTE5722 NTE6220 & NTE6230 Powerblock Modules

Description:

NTE series powerblock modules come in an industry standard package, offering four circuits that can be used singly or as power control building blocks. All models feature highly efficient thermal management for greatly extended cycle life.

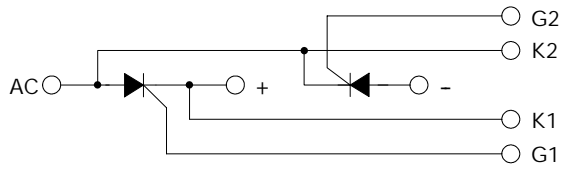
Features:

- D Industry Standard Package and Circuits
- D Power Control Building Blocks

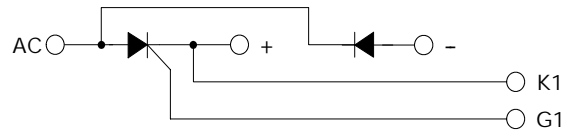
Electrical Specifications:

| | |
|--|-------------------------|
| Average Output Current Per Device ($T_C = +85^\circ\text{C}$), $I_{T(AV)}$ | |
| NTE5710, NTE5711, NTE5712, NTE6220 | 55A |
| NTE5720, NTE5721, NTE5722, NTE6230 | 90A |
| Repetitive Peak Reverse Voltage (AC Line), V_{RRM} | 1200V (480V) |
| Maximum Voltage Drop, V_F | |
| NTE5710, NTE5711, NTE5712, NTE6220 ($I_F = 165\text{A}$) | 1.4V |
| NTE5720, NTE5721, NTE5722, NTE6230 ($I_F = 270\text{A}$) | 1.4V |
| Critical Rate of Rise of On-State Current ($T_J = +125^\circ\text{C}$), di/dt | 100A/ μs |
| Critical Rate of Rise of Off-State Voltage ($T_J = +125^\circ\text{C}$), dv/dt | 500V/ μs |
| Maximum Non-Repetitive Surge Current (1/2 Cycle, 60Hz), I_{TSM} | |
| NTE5710, NTE5711, NTE5712, NTE6220 | 1500A |
| NTE5720, NTE5721, NTE5722, NTE6230 | 1950A |
| Maximum I^2t for Fusing ($t = 8.3\text{ms}$), I^2t | |
| NTE5710, NTE5711, NTE5712, NTE6220 | 9350A ² sec |
| NTE5720, NTE5721, NTE5722, NTE6230 | 15800A ² sec |
| Maximum Required Gate Current to Trigger ($+25^\circ\text{C}$), I_{GT} | 150mA |
| Maximum Required Gate Voltage to Trigger ($+25^\circ\text{C}$), V_{GT} | 3.0V |
| Average Gate Power, $P_{G(AV)}$ | 500mW |
| Maximum Peak Gate Voltage (Reverse), V_{GM} | 5.0V |
| Isolation Voltage, V_{ISOL} | 2500V _{RMS} |
| Operating Junction Temperature Range, T_J | -40° to +125°C |
| Maximum Thermal Resistance Per Module, Junction to Baseplate, $R_{\theta JC}$ | |
| NTE5710, NTE5711, NTE5712, NTE6220 | 0.25°C/W |
| NTE5720, NTE5721, NTE5722, NTE6230 | 0.14°C/W |

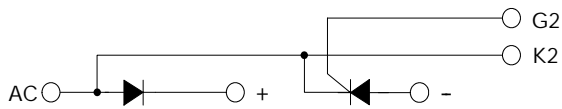
NTE5710, NTE5720



NTE5711, NTE5721



NTE5712, NTE5722



NTE6220, NTE6230

