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NTE5710 & NTE5711 NTE5720 & NTE5721 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.

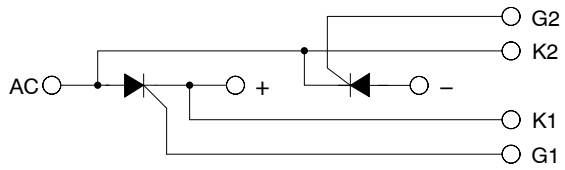
Features:

- Industry Standard Package and Circuits
- Power Control Building Blocks

Electrical Specifications:

Average Output Current Per Device ($T_C = +85^\circ\text{C}$), $I_{T(AV)}$	
NTE5710, NTE5711	55A
NTE5720, NTE5721	90A
Repetitive Peak Reverse Voltage (AC Line), V_{RRM}	1200V (480V)
Maximum Voltage Drop, V_F	
NTE5710, NTE5711 ($I_F = 165\text{A}$)	1.4V
NTE5720, NTE5721 ($I_F = 270\text{A}$)	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	1500A
NTE5720, NTE5721	1950A
Maximum I^2t for Fusing ($t = 8.3\text{ms}$), I^2t	
NTE5710, NTE5711	9350A ² sec
NTE5720, NTE5721	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 $+125^\circ\text{C}$
Maximum Thermal Resistance Per Module, Junction-to-Baseplate, R_{thJC}	
NTE5710, NTE5711	0.25 $^\circ\text{C}/\text{W}$
NTE5720, NTE5721	0.14 $^\circ\text{C}/\text{W}$

NTE5710, NTE5720



NTE5711, NTE5721

