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NTE6220 Powerblock Module

Description:

NTE series powerblock modules come in an industry standard package, offering 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 Circuit
- Power Control Building Blocks

Applications:

- AC/DC Motor Drives
- Various Rectifiers
- DC Supply to PWM Inverter

Electrical Specifications: ($T_J = +150^\circ\text{C}$ unless otherwise specified)

Maximum Mean Forward Current, $I_{F(AV)}$ (180° Half Sine Wave, 50Hz, Single Side Cooled, $T_C = +100^\circ\text{C}$)	55A
Maximum RMS Forward Current, $I_{F(RMS)}$	86A
Repetitive Peak Reverse Voltage ($t_p = 10\text{ms}$, $V_{RSM} = V_{RRM} + 200\text{V}$), V_{RRM}	1200V
Maximum Repetitive Peak Current ($V_{RRM} = 1200\text{V}$), I_{RRM}	8mA
Maximum Surge Forward Current (10ms Half Sine Wave, $V_R = 0.6V_{RRM}$), I_{FSM}	1.5KA
Maximum I^2t for Fusing (10ms Half Sine Wave, $V_R = 0.6V_{RRM}$), I^2t	$9.5\text{A}^2\text{s} * 10^3$
Maximum Threshold Voltage, V_{FO}	0.8V
Maximum Forward Slope Resistance, r_F	3.47m Ω
Maximum Peak Forward Voltage ($I_{FM} = 170\text{A}$, $T_J = +25^\circ\text{C}$), V_{FM}	1.45V
Minimum Isolation Voltage (50Hz, RMS, $t = 1\text{min}$, $I_{ISOL}: 1\text{mA (max)}$), V_{ISOL}	2500V _{RMS}
Max. Thermal Resistance, Junction-to-Case (At 180° Sine, Single Side Cooled), R_{thJC}	0.7 $^\circ\text{C/W}$
Max. Thermal Resistance, Case-to-Heatsink (At 180° Sine, Single Side Cooled), R_{thCH}	0.2 $^\circ\text{C/W}$
Storage Temperature Range, T_{stg}	-40° to $+125^\circ\text{C}$

