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NTE6230 Powerblock Module

Description:

The NTE6230 powerblock module comes in an industry standard package, offering a circuit that can be used singly or as a power control building block and features 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:

Average Output Current Per Device ($T_C = +100^\circ\text{C}$), $I_{T(AV)}$	90A
Repetitive Peak Reverse Voltage ($t_p = 10\text{ms}$, $V_{RSM} = V_{RRM} + 200\text{V}$), V_{RRM}	1200V
Repetitive Peak Current (At V_{RRM}), I_{RRM}	8mA
Maximum Voltage Drop ($I_F = 270\text{A}$), V_F	1.33V
Maximum Non-Repetitive Surge Current (1/2 Cycle, 60Hz), I_{TSM}	2.30KA
Maximum I^2t for Fusing ($t = 8.3\text{ms}$), I^2t	$26.9\text{A}^2\text{s} * 10^3$
Threshold Voltage ($T_J = +150^\circ\text{C}$), V_{FO}	0.8V
Forward Slope Resistance ($T_J = +150^\circ\text{C}$), r_F	1.7m Ω
Isolation Voltage, V_{ISOL}	2500V _{RMS}
Operating Junction Temperature Range, T_J	-40° to +125°C
Max. Thermal Resistance Per Module, Junction-to-Baseplate, R_{thJC}	0.47°C/W
Max. Thermal Resistance Per Module, Case-to-Heatsink, R_{thCH}	0.2°C/W

Rev. 9-14



