

NTE6230 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:

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	$26.9\text{A}^2\text{s} \times 10^3$
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 $+125^\circ\text{C}$
Max. Thermal Resistance Per Module, Junction-to-Baseplate, R_{thJC}	0.47 $^\circ\text{C/W}$
Max. Thermal Resistance Per Module, Case-to-Heatsink, R_{thCH}	0.2 $^\circ\text{C/W}$

