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NTE6234 Powerblock Module

Features:

- Isolated Mounting Base
- Pressure Contact Technology with Increased Power Cycling Capability
- Space and Weight Savings

Applications:

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

Ratings and Characteristics: ($T_J = +150^\circ\text{C}$ unless otherwise specified)

Maximum Average Forward Current, $I_{F(\text{AV})}$ ($T_C = +100^\circ\text{C}$, 180°, Half Sine Wave, 50Hz, Single Side Cooled)	190A
Maximum RMS Forward Current, $I_{T(\text{RMS})}$	314A
Maximum Repetitive Peak Reverse Voltage ($t_p = 10\text{ms}$), V_{RRM}	1600V
Maximum Non-Repetitive Peak Reverse Voltage ($t_p = 10\text{ms}$), V_{RSM}	2000V
Maximum Repetitive Peak Current (At V_{RRM}), I_{RRM}	12mA
Maximum Surge Forward Current (10ms Half Sine Wave, $V_R = 0.6V_{RRM}$), I_{FSM}	8.0KA
Maximum I^2t for Fusing Coordination (10ms half Sine Wave, $V_R = 0.6V_{RRM}$), I^2t	$326\text{A}^2\text{s} * 10^3$
Maximum Threshold Voltage, V_{FO}	0.75V
Maximum Forward Slope resistance, r_F	0.88mΩ
Maximum Peak Forward Voltage ($I_{FM} = 600\text{A}$, $T_J = +25^\circ\text{C}$), V_{FM}	1.38V
RMS Isolation Voltage (50Hz, $t = 1\text{s}$ Min, I_{SO} : 1mA Max), V_{ISO}	2500V
Storage Temperature Range, T_{stg}	-40° to +125°C
Thermal Resistance, Junction-to-Case (At 180° Sine, Single Side Cooled), R_{thJC}	0.21°C/W
Thermal Resistance, Case-to-Sink (At 180° Sine, Single Side Cooled), R_{thCS}	0.08°C/W

Circuit Diagram

