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NTE5708, NTE5714 & NTE5724 Thyristor Powerblock Modules

Description:

NTE series thyristor powerblock modules come in a convenient industry standard package with screw terminals. These devices can be used individually or in combination with other modules. All models feature highly efficient thermal management for greatly extended cycle life.

Features:

- Industry Standard Package and Circuit
- Power Control Building Blocks
- Highly Efficient Thermal Management

Electrical Specifications: ($T_C = +25^\circ\text{C}$ unless otherwise specified)

Average Output Current Per Device ($T_C = +85^\circ\text{C}$, 8.3ms), $I_{T(AV)}$

NTE5708 25A

NTE5714 70A

NTE5724 90A

Maximum Repetitive Peak Reverse Voltage (AC Line), V_{RRM} 1600V (600V)

Maximum Voltage Drop, V_F

NTE5708 ($I_F = 75\text{A}$) 1.55V

NTE5714 ($I_F = 210\text{A}$) 1.48V

NTE5724 ($I_F = 270\text{A}$) 1.40V

Critical Rate of Rise of On-State Current ($T_J = +125^\circ\text{C}$), di/dt

NTE5714 50A/ μs

All Other Devices 100A/ μs

Critical Rate of Rise of Off-State Voltage ($T_J = +125^\circ\text{C}$), dv/dt

NTE5714 800V/ μs

All Other Devices 500V/ μs

Maximum Non-Repetitive Surge Current, I_{TSM}

NTE5708 400A

NTE5714 1600A

NTE5724 1950A

Maximum I^2t for Fusing ($t = 8.3\text{ms}$), I^2t

NTE5708 670A ^2sec

NTE5714 16000A ^2sec

NTE5724 15800A ^2sec

Maximum Required Gate Current to Trigger, I_{GT}

NTE5714 100mA

All Other Devices 150mA

Maximum Required Gate Voltage to Trigger, V_{GT}

NTE5714 2.5V

All Other Devices 3.0V

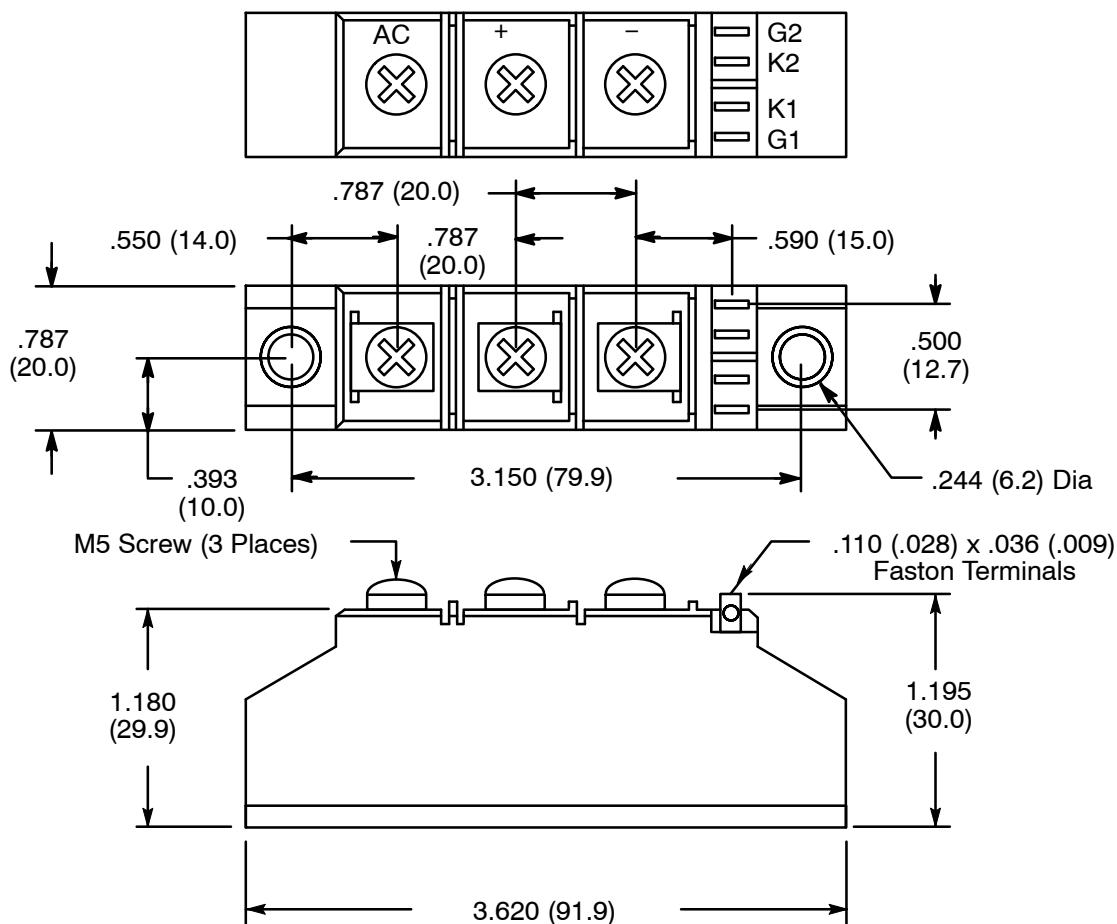
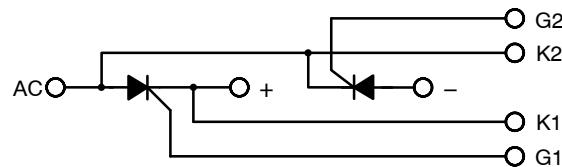
Average Gate Power (Excludes NTE5714), $P_{G(AV)}$

500mW

Electrical Specifications (Cont'd): ($T_C = +25^\circ\text{C}$ unless otherwise specified)

Maximum Peak Gate Reverse Voltage (Excludes NTE5714), V_{GM}	-5.0V
Isolation Voltage (All Terminals to Base), V_{ISOL}	2500V _{RMS}
Operating Junction Temperature Range, T_J	-40° to +125°C
Maximum Thermal Resistance (Per Module), Junction-to-Baseplate, R_{thJC}	
NTE5708	0.40°C/W
NTE5714	0.20°C/W
NTE5724	0.14°C/W

NTE5708, NTE5714, NTE5724



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