ELECTRONICS, INC.
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BLOOMFIELD, NJ 07003
(973) 748–5089
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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:

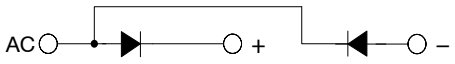
- AC/DC Motor Drives
- Various Rectifiers
- DC Supply to PWM Inverter

Electrical Specifications:

Average Output Current Per Device (T_C = +100°C), $I_{T(AV)}$ 90A
Repetitive Peak Reverse Voltage (t_p = 10ms, V_{RSM} = V_{RRM} + 200V), V_{RRM} 1200V
Repetitive Peak Current (At V_{RRM}), I_{RRM} 8mA
Maximum Voltage Drop (I_F = 270A), V_F 1.33V
Maximum Non−Repetitive Surge Current (1/2 Cycle, 60Hz), I_{TSM} 2.30KA
Maximum I^2t for Fusing (t = 8.3ms), I^2t . . . . . $26.9A^2s * 10^3$
Threshold Voltage (T_J = +150°C), V_{FO} 0.8V
Forward Slope Resistance (T_J = +150°C), r_F 1.7mΩ
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

RoHS 2002/95/EC


AC
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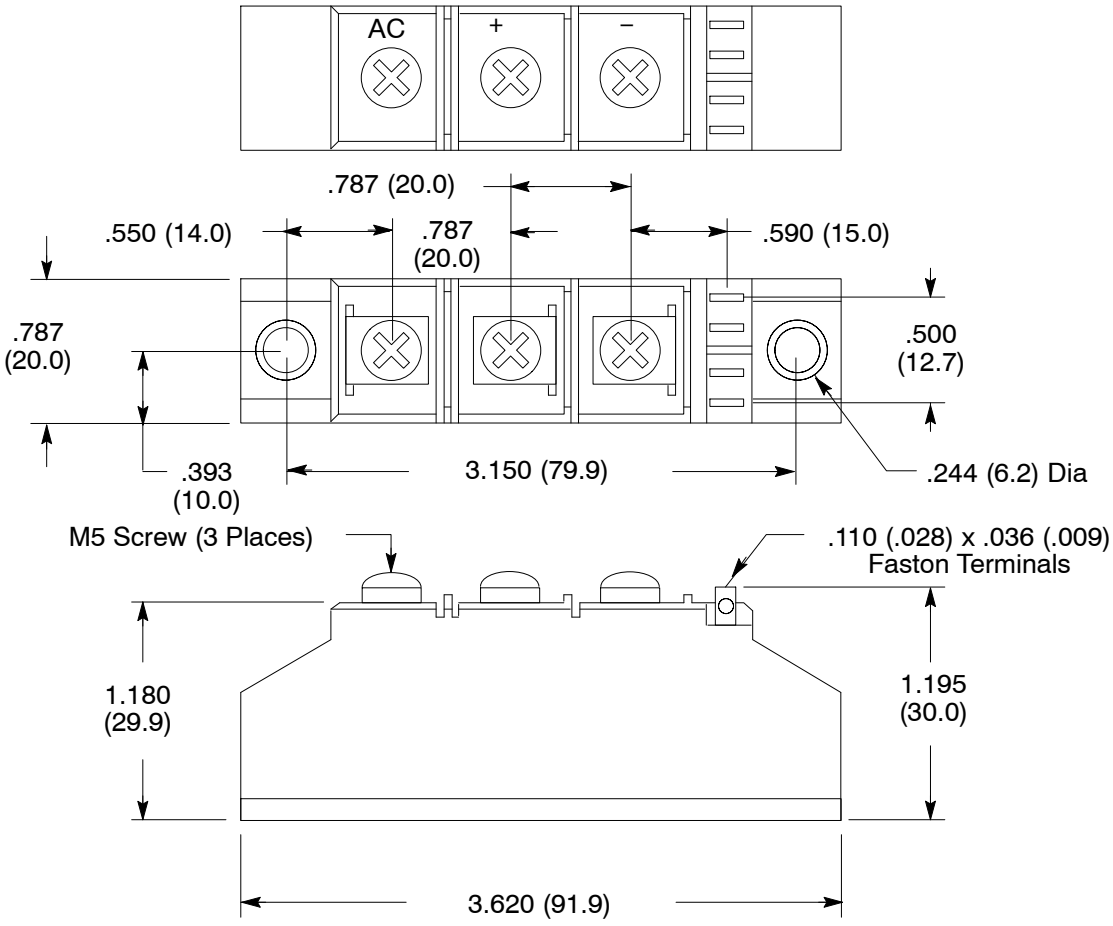
AC
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.393
(10.0)
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M5 Screw (3 Places)
.110 (.028) x .036 (.009)
Faston Terminals
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