ELECTRONICS, INC.
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NTE6222
Rectifier Powerblock Module

Description:

The NTE6222 rectifier powerblock module comes in a convienient industry standard package with screw terminals and can be used individually or in combination with other modules. This device features highly efficient thermal management for greatly extended cycle life.

Features:

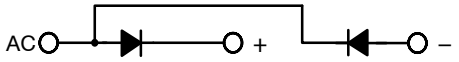
- Industry Standard Package and Circuit
- Power Control Building Blocks
- Highly Efficient Thermal Management

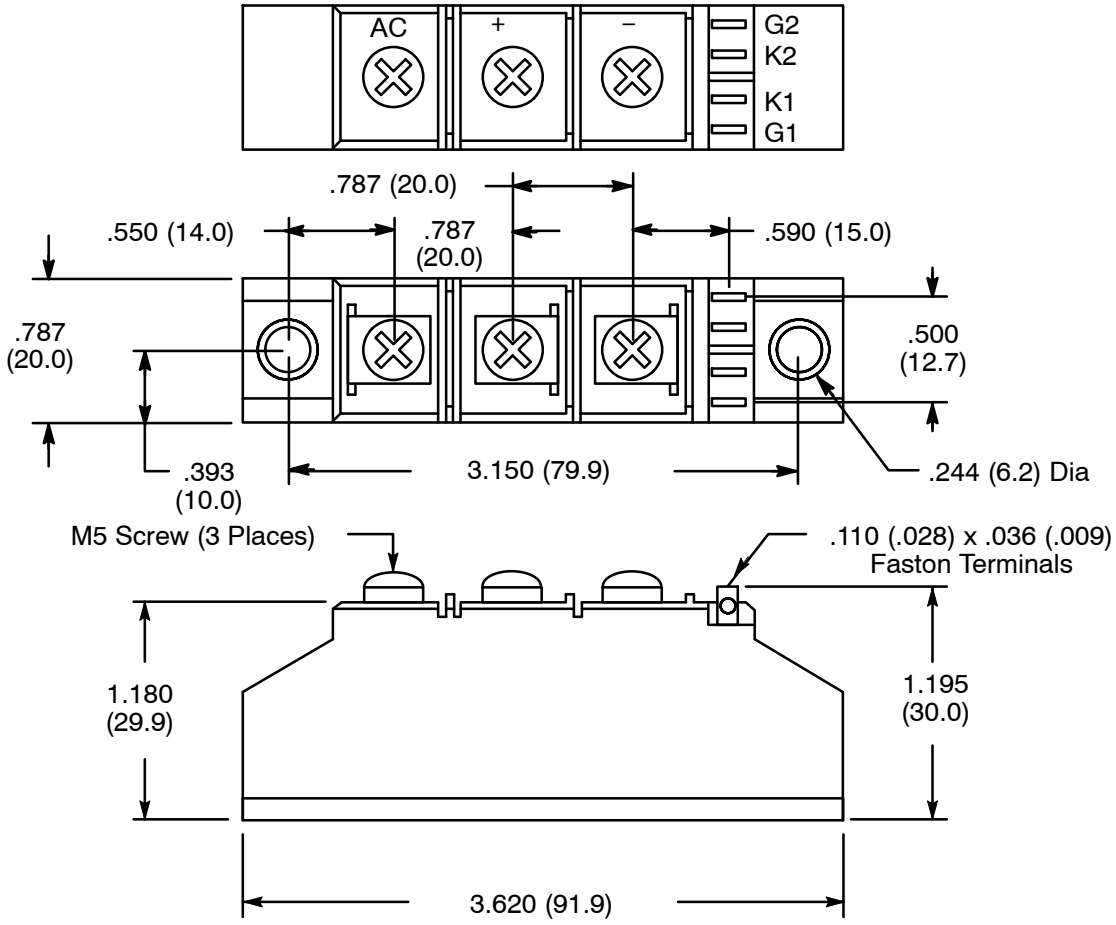
Electrical Specifications: (T_C = +25°C unless otherwise specified)

Average Output Current Per Device (T_C = +85°C, 8.3ms), $I_{T(AV)}$ 60A
Maximum Repetitive Peak Reverse Voltage (AC Line), V_{RRM} 1600V (600V)
Maximum Voltage Drop (I_F = 165A), V_F 1.40V
Critical Rate of Rise of On–State Current (T_J = +125°C), di/dt 100A/μs
Critical Rate of Rise of Off–State Voltage (T_J = +125°C), dv/dt 500V/μs
Maximum Non–Repetitive Surge Current, I_{TSM} 1500A
Maximum I^2t for Fusing (t = 8.3ms), I^2t . . . . . 9350A^2sec
Maximum Required Gate Current to Trigger, I_{GT} 150mA
Maximum Required Gate Voltage to Trigger, V_{GT} 3.0V
Average Gate Power, $P_{G(AV)}$ 500mW
Maximum Peak Gate Reverse Voltage, 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} . . . . . 0.25°C/W

Rev. 9–10

NTE6222


AC
+
–


AC
+
–
G2
K2
K1
G1
.787 (20.0)
.550 (14.0)
.787
(20.0)
.590 (15.0)
.787
(20.0)
.500
(12.7)
.393
(10.0)
3.150 (79.9)
.244 (6.2) Dia
M5 Screw (3 Places)
.110 (.028) x .036 (.009)
Faston Terminals
1.180
(29.9)
1.195
(30.0)
3.620 (91.9)