



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

NTE3302

Insulated Gate Bipolar Transistor N-Channel Enhancement Mode, High Speed Switch TO220 Full Pack

Features:

- High Input Impedance
- High Speed
- Low Saturation Voltage
- Enhancement Mode

Applications:

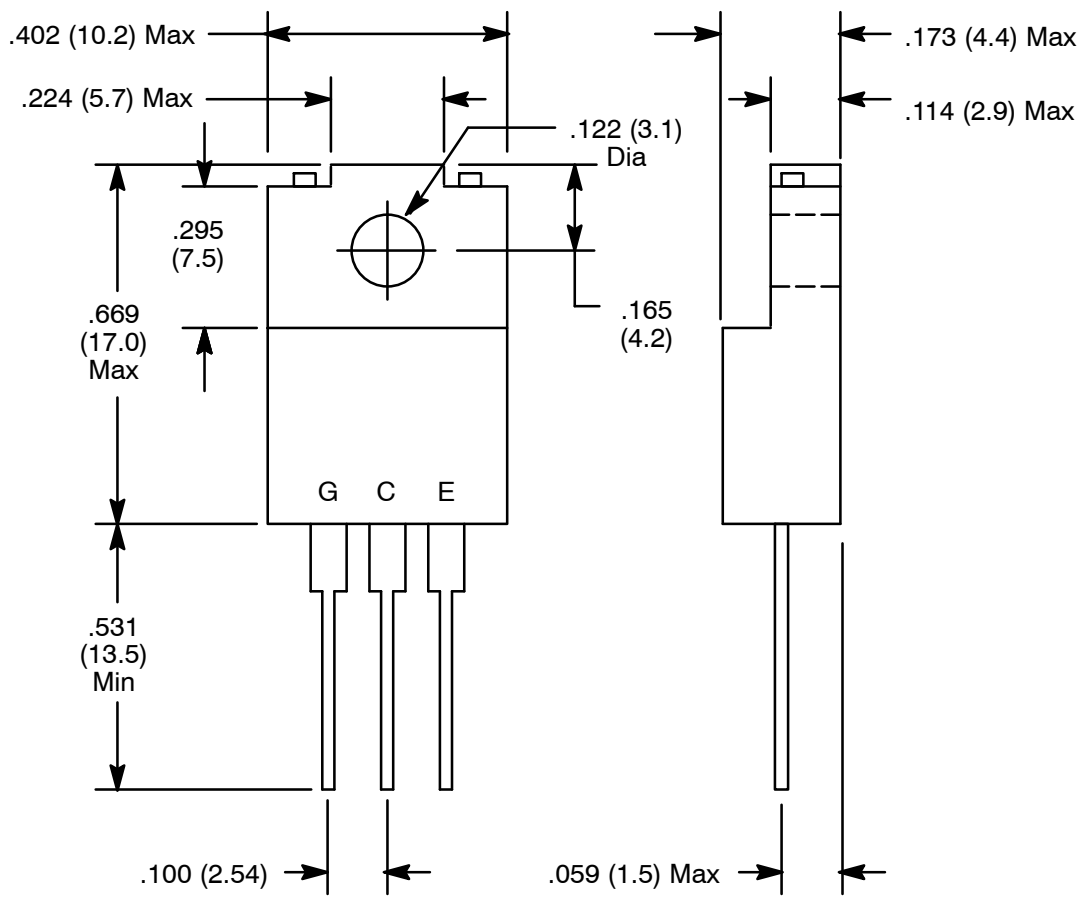
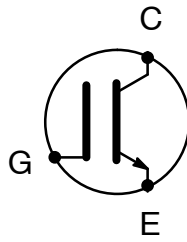
- High Power Switching
- Motor Control

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

| | |
|--|-------------------------------------|
| Collector-Emitter Voltage, V_{CES} | 600V |
| Gate-Emitter Voltage, V_{GES} | $\pm 20\text{V}$ |
| Collector Current, I_C | |
| DC | 8A |
| Pulse (1ms) | 16A |
| Collector Power Dissipation ($T_C = +25^\circ\text{C}$), P_C | 30W |
| Operating Junction Temperature, T_J | $+150^\circ\text{C}$ |
| Storage Temperature Range, T_{stg} | -55° to $+150^\circ\text{C}$ |

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

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|--|-----|------|-----------|---------------|
| Gate Leakage Current | I_{GES} | $V_{GE} = \pm 20\text{V}, V_{CE} = 0$ | - | - | ± 500 | nA |
| Collector Cutoff Current | I_{CES} | $V_{CE} = 600\text{V}, V_{GE} = 0$ | - | - | 1.0 | mA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CES}$ | $I_C = 2\text{mA}, V_{GE} = 0$ | 600 | - | - | V |
| Gate-Emitter Cutoff Voltage | $V_{GE(off)}$ | $I_C = 8\text{mA}, V_{CE} = 5\text{V}$ | 3.0 | - | 6.0 | V |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = 8\text{A}, V_{GE} = 15\text{V}$ | - | 3.0 | 4.0 | V |
| Input Capacitance | C_{ies} | $V_{CE} = 10\text{V}, V_{GE} = 0, f = 1\text{MHz}$ | - | 650 | - | pF |
| Rise Time | t_r | $V_{CC} = 300\text{V}$ | - | 0.3 | 0.6 | μs |
| Turn-On Time | t_{on} | | - | 0.4 | 0.8 | μs |
| Fall Time | t_f | | - | 0.15 | 0.35 | μs |
| Turn-Off Time | t_{off} | | - | 0.5 | 1.0 | μs |



NOTE: Tab is isolated

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