



ELECTRONICS, INC.
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NTE2576 (NPN) & NTE2577 (PNP) Silicon Complementary Transistors Audio Output Driver TO-220 Full Pack

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

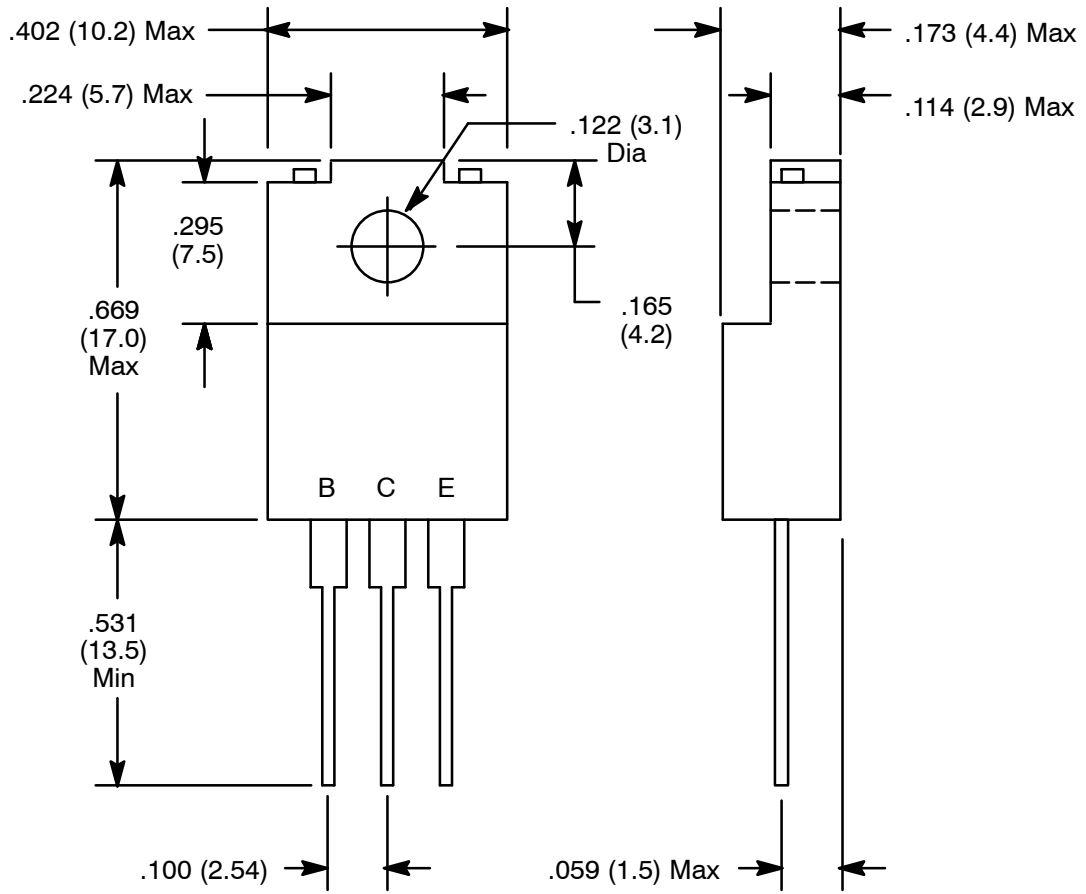
| | |
|--------------------------------------------------------------|----------------|
| Collector-Base Voltage, V_{CBO} | 200V |
| Collector-Emitter Voltage, V_{CEO} | 200V |
| Emitter-Base Voltage, V_{EBO} | 6V |
| Collector Current, I_C | 2A |
| Base Current, I_B | 1A |
| Power Dissipation ($T_C = +25^\circ\text{C}$), P_C | 20W |
| Operating Junction Temperature, T_J | +150°C |
| Storage Temperature Range, T_{stg} | -55° to +150°C |

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

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|-------------------------------------------|-----|-----|-----|---------------|
| Collector Cutoff Current | I_{CBO} | $V_{CB} = 180\text{V}$ | - | - | 10 | μA |
| Emitter Cutoff Current | I_{EBO} | $V_{EB} = 6\text{V}$ | - | - | 10 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = 10\text{mA}$ | 180 | - | - | V |
| DC Current Gain | h_{FE} | $V_{CE} = 10\text{V}, I_C = 700\text{mA}$ | 60 | - | 240 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = 700\text{mA}, I_B = 70\text{mA}$ | - | - | 1.0 | V |
| Transition Frequency | f_T | $V_{CE} = 12\text{V}, I_E = 700\text{mA}$ | - | 60 | - | MHz |
| Output Capacitance | C_{ob} | $V_{CB} = 10\text{V}, f = 1\text{MHz}$ | - | 30 | - | pF |

Rev. 6-15





NOTE: Tab is isolated

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