



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

## 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)

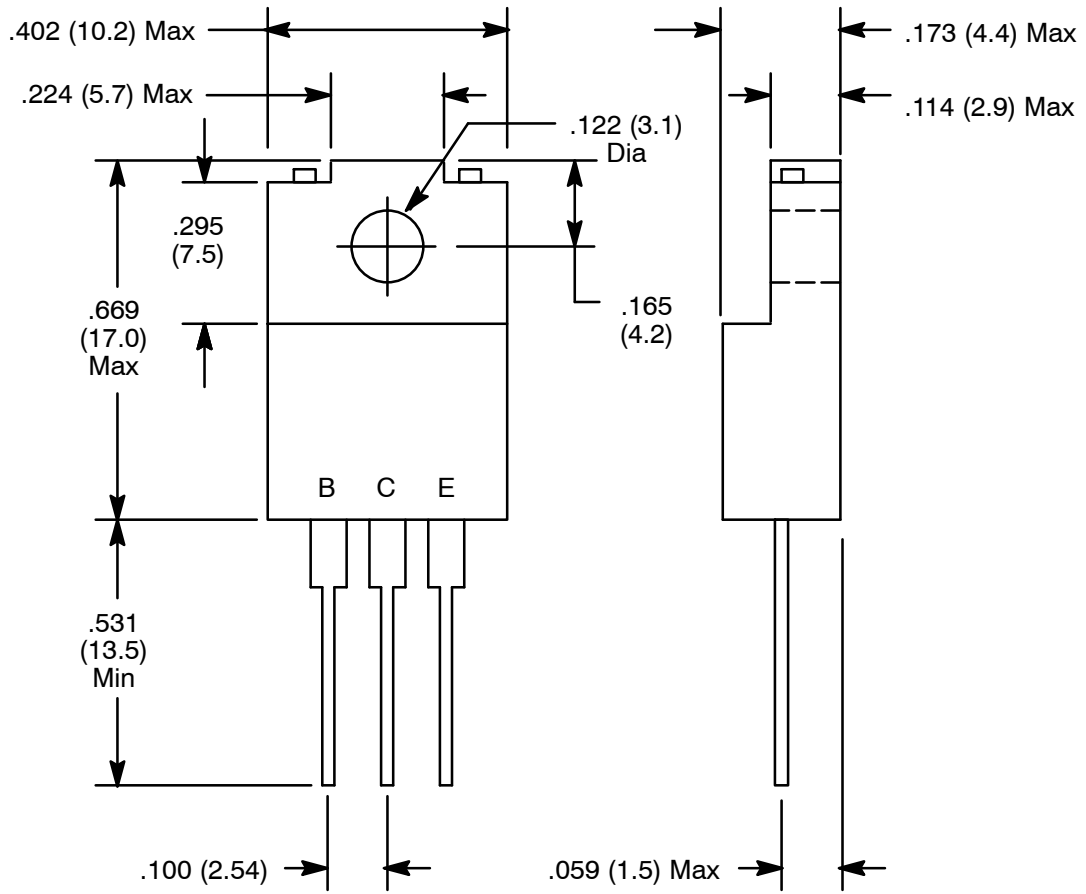
|  |                |
|--|----------------|
| Collector-Base Voltage, $V_{CBO}$ .....                      | 200V           |
| Collector-Emitter Voltage, $V_{CEO}$ .....                   | 200V           |
| Emitter-Base Voltage, $V_{EBO}$ .....                        | 6V             |
| Collector 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  | $\mu\text{A}$ |
| Emitter Cutoff Current               | $I_{EBO}$     | $V_{EB} = 6\text{V}$                      | -   | -   | 10  | $\mu\text{A}$ |
| 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