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NTE2676 Silicon NPN Transistor High Voltage, High Speed Switch TO3P(H)IS Type Package

Features:

- High Breakdown Voltage: $V_{CBO} = 1500V$ Min
- High Switching Speed
- Low Saturation Voltage

Applications:

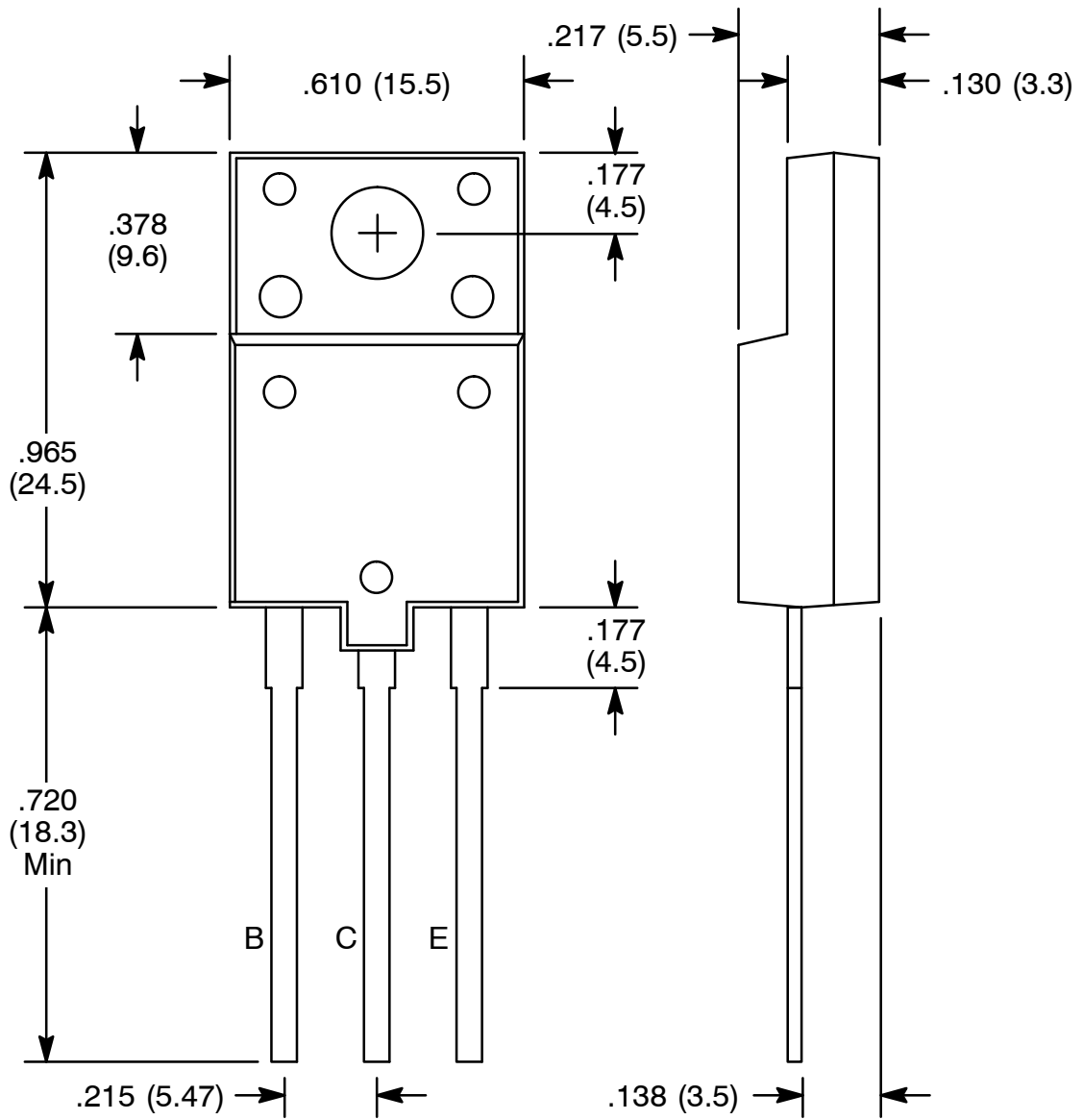
- Color TV Horizontal Deflection Output

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

| | |
|--|----------------|
| Collector–Base Voltage, V_{CBO} | 1500V |
| Collector–Emitter Voltage, V_{CEO} | 600V |
| Emitter–Base Voltage, V_{EBO} | 5V |
| Collector Current, I_C | |
| Continuous | 10A |
| Pulse | 20A |
| Continuous Base Current, I_B | 5A |
| Collector Power Dissipation ($T_C = +25^\circ C$), P_C | 50W |
| Operating Junction Temperature, T_J | +150°C |
| Storage Temperature Range, T_{stg} | -55° to +150°C |

Electrical Characteristics: ($T_C = +25^\circ C$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|------------------|---|-----|-----|-----|------|
| Collector–Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = 6A, I_B = 1.5A$ | – | – | 3.0 | V |
| Base–Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C = 6A, I_B = 1.5A$ | – | – | 1.4 | V |
| Collector Cutoff Current | I_{CBO} | $V_{CB} = 1500V, I_E = 0$ | – | – | 1.0 | mA |
| Emitter Cutoff Current | I_{EBO} | $V_{EB} = 5V, I_C = 0$ | – | – | 10 | µA |
| DC Current Gain | h _{FE} | $I_C = 1A, V_{CE} = 5V$ | 10 | – | 30 | |
| | | $I_C = 6A, V_{CE} = 5V$ | 4 | – | 8 | |
| Current Gain Bandwidth Product | f _T | $I_C = 100mA, V_{CE} = 10V$ | – | 1.7 | – | MHz |
| Output Capacitance | C _{OB} | $I_E = 0, V_{CB} = 10V, f_{test} = 1.0MHz$ | – | 135 | – | pF |
| Storage Time | t _{stg} | $I_{CP} = 6A, I_{B1(end)} = 1.5A, f_H = 15.75kHz$ | – | – | 11 | µs |
| Fall Time | t _f | | – | – | 0.7 | µs |



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