



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



NTE2324

Silicon NPN Transistor

Color TV Horizontal Deflection Output

TO3PML Type Package

Applications:

- Color TV Horizontal Deflection Output

Features:

- High Speed ($t_f = 100\text{nsec}$)
- High Breakdown Voltage ($V_{CBO} = 1500\text{V}$)
- High Reliability (adoption of HVP process)

Absolute Maximum Ratings:

| | |
|--|----------------|
| Collector to Base Voltage, V_{CBO} | 1500V |
| Collector to Emitter Voltage, V_{CEO} | 800V |
| Emitter to Base Voltage, V_{EBO} | 6V |
| Collector Current, I_C | |
| Continuous | 8A |
| Peak | 30A |
| Collector Dissipation ($T_C = +25^\circ\text{C}$), P_C | 70W |
| 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_{CES} | $V_{CE} = 1500\text{V}$ | - | - | 1.0 | mA |
| | I_{CBO} | $V_{CB} = 800\text{V}$ | - | - | 10 | μA |
| Collector Sustain Voltage | $V_{CEO(sus)}$ | $I_C = 100\text{mA}, I_B = 0$ | 800 | - | - | V |
| Emitter Cutoff Current | I_{EBO} | $V_{EB} = 4\text{V}$ | - | - | 1.0 | mA |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = 6\text{A}, I_B = 1.2\text{A}$ | - | - | 5.0 | V |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C = 6\text{A}, I_B = 1.2\text{A}$ | - | - | 1.5 | V |
| DC Current Gain | h_{FE} | $V_{CE} = 5\text{V}, I_C = 1\text{A}$ | 8 | - | - | |
| | | $V_{CE} = 5\text{V}, I_C = 6\text{A}$ | 5 | - | 13 | |
| Fall Time | t_f | $I_C = 6\text{A}, I_{B1} = 1.2\text{A}, I_{B2} = 2.4\text{A}$ | - | 0.1 | 0.3 | μs |

