

NTE2507 Silicon NPN Transistor High Frequency Video Output

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

| | |
|--|--------|
| Collector-Base Voltage, V_{CB0} | 200V |
| Collector-Emitter Voltage, V_{CEO} | 200V |
| Emitter-Base Voltage, V_{EBO} | 5V |
| Collector Current, I_C | 400mA |
| Collector Power Dissipation ($T_C = +25^\circ\text{C}$), P_C | 20W |
| Operating Junction Temperature, T_J | +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} | $V_{CB} = 150V$ | - | - | 0.1 | μA |
| DC Current Gain | h_{FE} | $V_{CE} = 10V, I_C = 50\text{mA}$ | 40 | - | 320 | |
| Transition Frequency | f_T | $V_{CE} = 30V, I_C = 100\text{mA}$ | - | 400 | - | MHz |
| Output Capacitance | C_{ob} | | - | 4.2 | - | pF |

