

NTE127 Germanium PNP Transistor Horizontal Output Amplifier

Absolute Maximum Ratings:

| | |
|--------------------------------------------------------------------|---------------|
| Collector–Base Voltage, V_{CBO} | |
| Peak | 320V |
| Continuous | 60V |
| Emitter–Base Voltage, V_{EBO} | 2V |
| Collector Current, I_C | 10A |
| Base Current, I_B | +4, –1A |
| Power Dissipation ($T_{MF} \leq +55^\circ\text{C}$), P_D | 5W |
| Operating Junction Temperature Range, $T_J(\text{opr})$ | –65° to +85°C |
| Storage Temperature Range, T_{stg} | –65° to +85°C |
| Maximum Thermal Resistance, Junction–to–Case, R_{thJC} | 1.5°C/W |
| Lead Temperature (During Soldering, 10sec Max), T_L | +230°C |

Electrical Characteristics:

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|---------------------------------------|-----|-----|-----|---------------|
| Collector–Emitter Breakdown Voltage | $V_{(BR)CES}$ | $I_C = 0.025\text{A}, V_{EB} = 0$ | 320 | – | – | V |
| Emitter–Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E = 100\text{mA}, I_C = 0$ | 2 | – | – | V |
| Collector Cutoff Current | I_{CBO} | $V_{CB} = 10\text{V}, I_E = 0$ | – | – | 200 | μA |
| Collector–Emitter Saturation Voltage | $V_{CE(\text{sat})}$ | $I_C = 6\text{A}, I_B = 400\text{mA}$ | – | – | 1.5 | V |
| | | $I_C = 3\text{A}, I_B = 200\text{mA}$ | – | – | 1.5 | V |
| DC Current Gain | h_{FE} | $V_{CE} = 3\text{V}, I_C = 6\text{A}$ | 15 | – | – | |
| Base–Emitter Voltage | V_{BE} | $I_C = 6\text{A}, I_B = 400\text{mA}$ | – | 0.8 | – | V |
| Turn–Off Time | $t_s + t_f$ | | – | – | 1.2 | μs |

Note 1. This device is for **replacement only** and **NOT** intended for new design. Therefore, these specifications are for **reference only** and strictly for determining the suitability of this device as a replacement in a working circuit.

