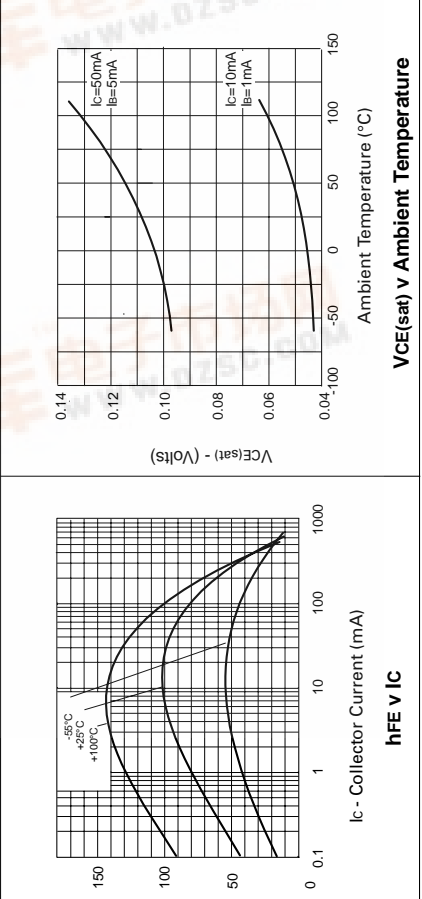
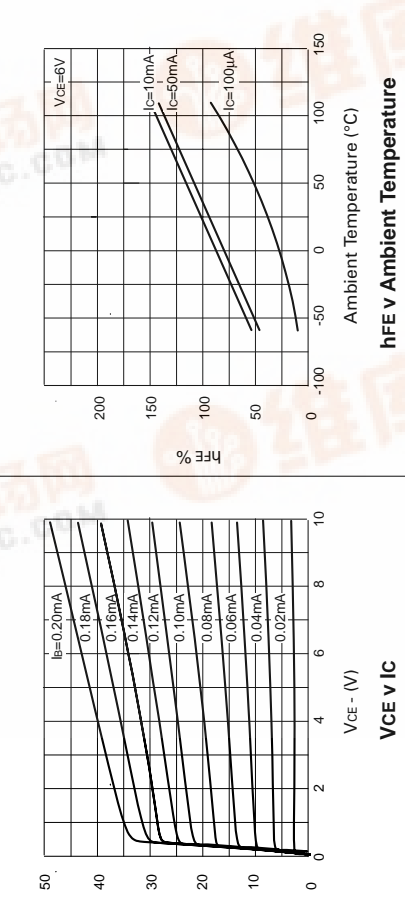
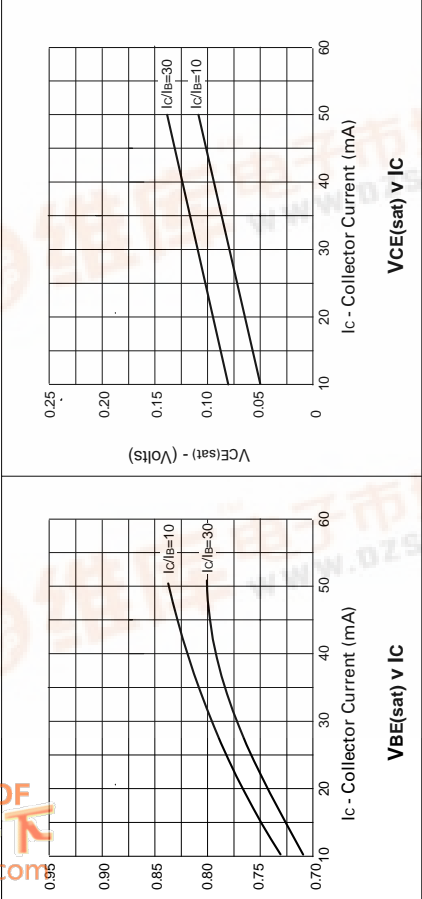




ZTX500

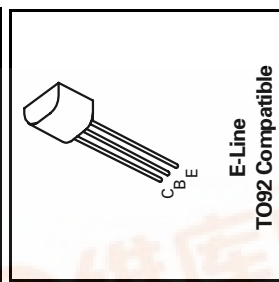
TYPICAL CHARACTERISTICS



PNP SILICON PLANAR SMALL SIGNAL TRANSISTOR

ISSUE 1 - MARCH 94

ZTX500



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ABSOLUTE MAXIMUM RATINGS.

| PARAMETER | SYMBOL | VALUE | UNIT |
|---|----------------|-------------|------------------|
| Collector-Base Voltage | V_{CBO} | -25 | V |
| Collector-Emitter Voltage | V_{CEO} | -25 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Continuous Collector Current | I_C | -500 | mA |
| Power Dissipation at $T_{amb}=25^\circ\text{C}$ | P_{tot} | 300 | mW |
| Operating and Storage Temperature Range | $T_j; T_{stg}$ | -55 to +175 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$).

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | CONDITIONS. |
|--------------------------------------|----------------|-------|------|-------|---------------|--|
| Collector-Base Breakdown Voltage | $V_{(BR)CBO}$ | -25 | | | V | $I_C = -10\mu\text{A}$ |
| Collector-Emitter Sustaining Voltage | $V_{CEO(sus)}$ | -25 | | | V | $I_C = -5\text{mA}$ |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | -5 | | | V | $I_E = -10\mu\text{A}$ |
| Collector Cut-Off Current | I_{CBO} | | | -0.2 | μA | $V_{CB} = -25\text{V}$ |
| Emitter Cut-Off Current | I_{EBO} | | | -0.2 | μA | $V_{EB} = -4\text{V}$ |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | | | -0.35 | V | $I_C = -50\text{mA}$, $I_B = -5\text{mA}^*$ |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | -0.65 | | -1 | V | $I_C = -10\text{mA}$, $I_B = -1\text{mA}^*$ |
| Static Forward Transfer Ratio | h_{FE} | 50 | | 300 | | $I_C = -10\text{mA}$, $V_{CE} = -6\text{V}^*$ |
| Transition Frequency | f_T | 150 | | | MHz | $I_C = -10\text{mA}$, $V_{CE} = -6\text{V}$ $f = 100\text{MHz}$ |
| Output Capacitance | C_{obo} | | | 6 | pF | $V_{CB} = -6\text{V}$, $f = 1\text{MHz}$ |
| Noise Figure | N | | 7 | | dB | $I_C = -100\mu\text{A}$, $R_S = 1.5\text{K}\Omega$ $f = 1\text{KHz}$ |

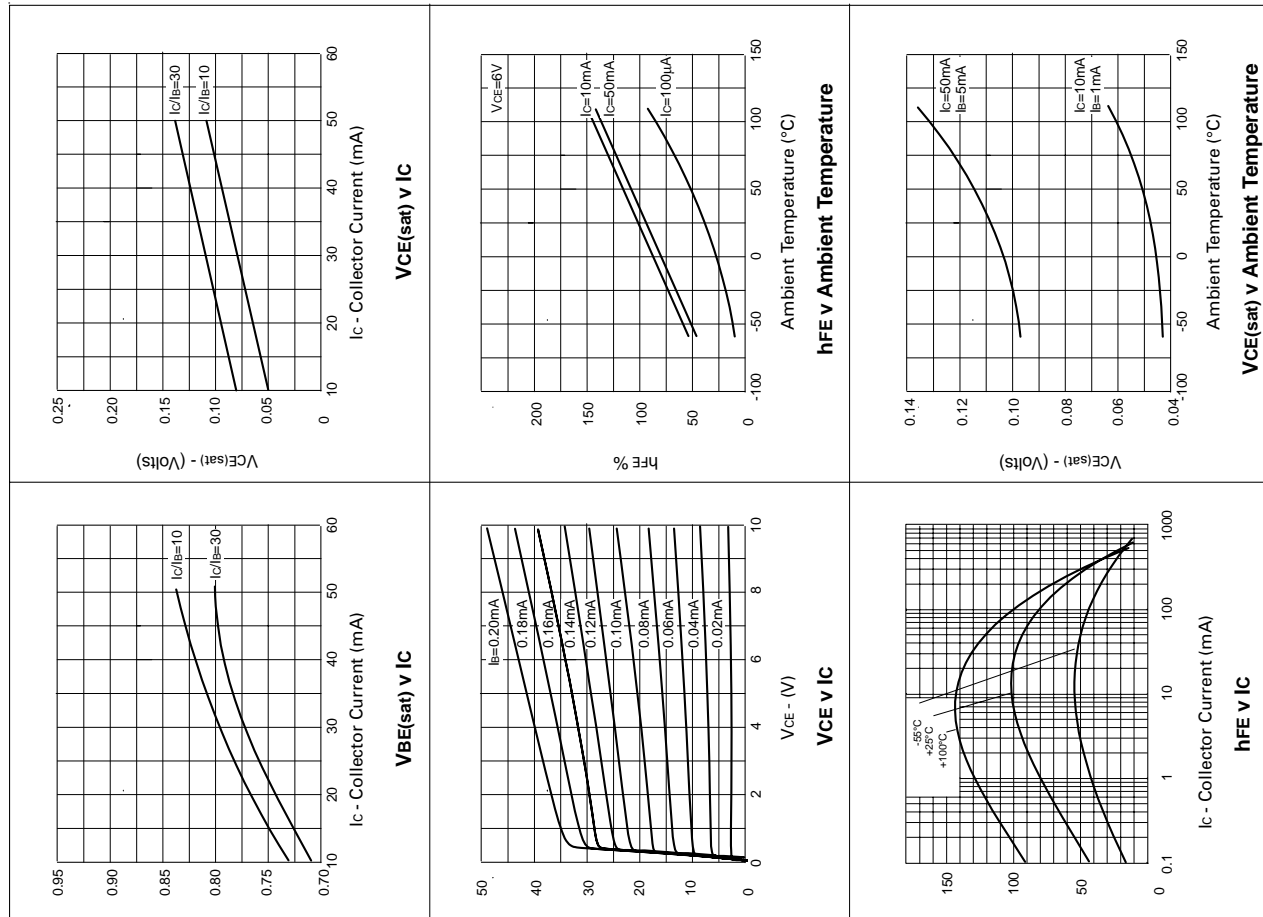
[捷多邦, 专业PCB打样工厂, 24小时加急出货](#)

**PNP SILICON PLANAR
SMALL SIGNAL TRANSISTOR**
ISSUE 1 – MARCH 94

ZTX500

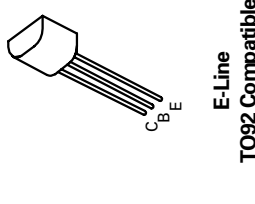
ZTX500

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| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | -5 | | | V | $I_E = -10\mu\text{A}$ |
| Collector Cut-Off Current | I_{CBO} | | | -0.2 | μA | $V_{CE} = -25\text{V}$ |
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