

# ZTX788A

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

| PARAMETER            | SYMBOL                | MIN. | TYP.      | MAX. | UNIT     | CONDITIONS.                                                                                        |
|----------------------|-----------------------|------|-----------|------|----------|----------------------------------------------------------------------------------------------------|
| Transition frequency | $f_T$                 | 100  | 150       |      | MHz      | $I_C = 50\text{mA}$ , $V_{CE} = 5\text{V}$<br>$f = 50\text{MHz}$                                   |
| Output Capacitance   | $C_{obo}$             |      | 30        | 60   | p        | $V_{CB} = -10\text{V}$ , $f = 1\text{MHz}$                                                         |
| Switching Times      | $t_{on}$<br>$t_{off}$ |      | 40<br>500 |      | ns<br>ns | $I_C = 500\text{mA}$ , $I_{B1} = -50\text{mA}$<br>$I_{B2} = -50\text{mA}$ , $V_{CC} = -10\text{V}$ |

\*Measured under pulsed conditions. Pulse width=300 $\mu\text{s}$ . Duty cycle  $\leq 2\%$

## THERMAL CHARACTERISTICS

| PARAMETER                                            | SYMBOL           | MAX. | UNIT                 |
|------------------------------------------------------|------------------|------|----------------------|
| Thermal Resistance: Junction to Ambient <sub>1</sub> | $R_{th(j-amb)1}$ | 175  | $^{\circ}\text{C/W}$ |
| Junction to Ambient <sub>2</sub>                     | $R_{th(j-amb)2}$ | 116  | $^{\circ}\text{C/W}$ |
| Junction to Case                                     | $R_{th(j-case)}$ | 70   | $^{\circ}\text{C/W}$ |

t Device mounted on P.C.B. with copper equal to 1 sq. Inch minimum.

