

# SOT223 PNP SILICON PLANAR DARLINGTON TRANSISTORS

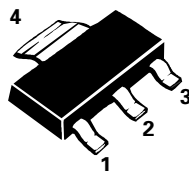
ISSUE 5- MARCH 2001



## FZTA64

PARTMARKING DETAILS: FZTA64

COMPLIMENTARY TYPE: FZTA14



SOT223

### ABSOLUTE MAXIMUM RATINGS.

| PARAMETER                                  | SYMBOL         | VALUE       | UNIT        |
|--------------------------------------------|----------------|-------------|-------------|
| Collector-Base Voltage                     | $V_{CBO}$      | -30         | V           |
| Collector-Emitter Voltage                  | $V_{CEO}$      | -30         | V           |
| Emitter-Base Voltage                       | $V_{EBO}$      | -10         | V           |
| Peak Pulse Current                         | $I_{CM}$       | -800        | mA          |
| Continuous Collector Current               | $I_C$          | -500        | mA          |
| Peak Base Current                          | $I_{BM}$       | -200        | mA          |
| Power Dissipation at $T_{amb}=25^{\circ}C$ | $P_{tot}$      | 2           | W           |
| Operating and Storage Temperature Range    | $T_j; T_{stg}$ | -55 to +150 | $^{\circ}C$ |

### ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise stated).

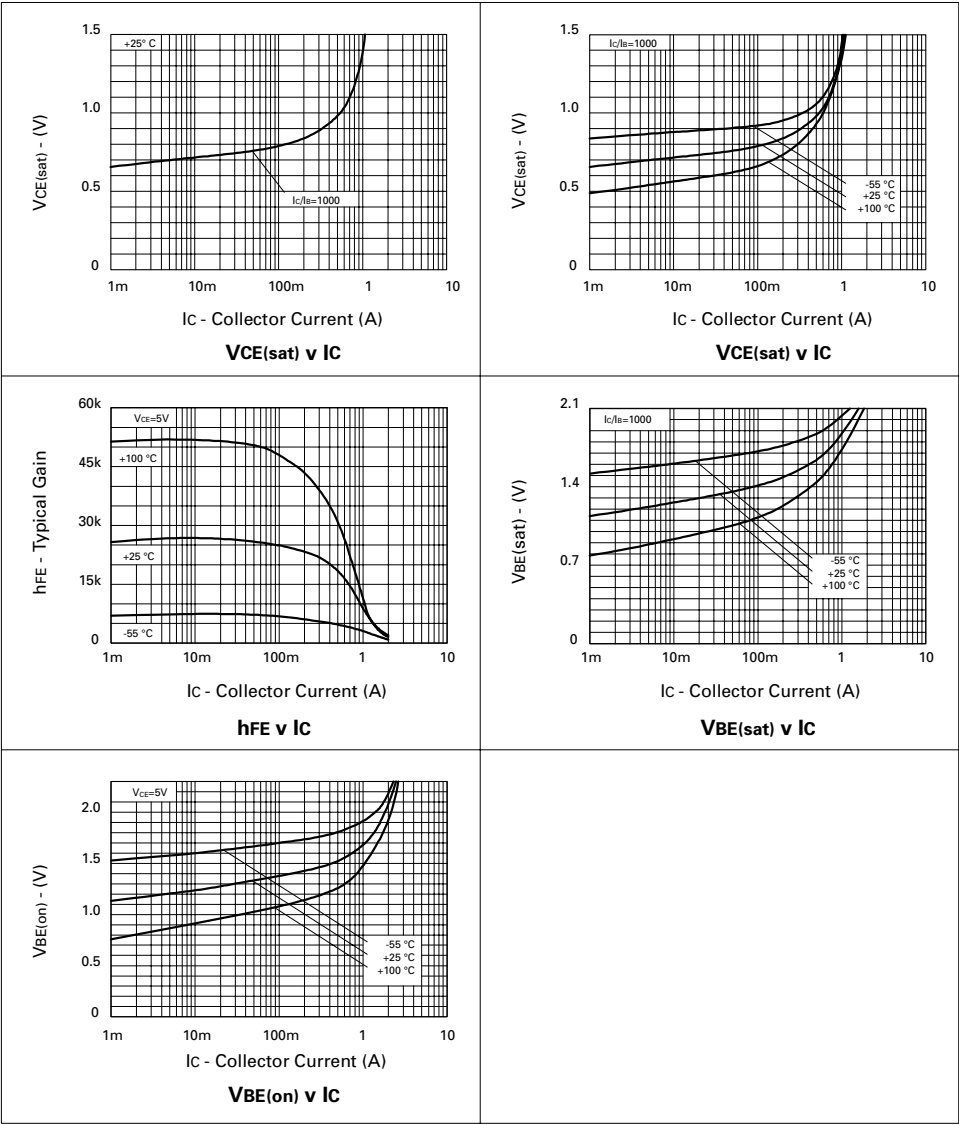
| PARAMETER                             | SYMBOL        | MIN.       | MAX. | UNIT | CONDITIONS.                                                   |
|---------------------------------------|---------------|------------|------|------|---------------------------------------------------------------|
| Collector-Base Breakdown Voltage      | $V_{(BR)CBO}$ | -30        |      | V    | $I_C = -10\mu A, I_E = 0$                                     |
| Collector-Emitter Breakdown Voltage   | $V_{(BR)CEO}$ | -30        |      | V    | $I_C = -10mA, I_B = 0^*$                                      |
| Emitter-Base Breakdown Voltage        | $V_{(BR)EBO}$ | -10        |      | V    | $I_E = -10\mu A, I_C = 0$                                     |
| Collector Cut-Off Current             | $I_{CBO}$     |            | -100 | nA   | $V_{CB} = -30V, I_E = 0$                                      |
| Emitter Cut-Off Current               | $I_{EBO}$     |            | -100 | nA   | $V_{EB} = -10V, I_C = 0$                                      |
| Collector-Emitter Saturation Voltage  | $V_{CE(sat)}$ |            | -1.5 | V    | $I_C = -100mA, I_B = -0.1mA^*$                                |
| Base-Emitter Saturation Voltage       | $V_{BE(sat)}$ |            | -2.0 | V    | $I_C = -100mA, I_B = -0.1mA^*$                                |
| Static Forward Current Transfer Ratio | $h_{FE}$      | 10K<br>20K |      |      | $I_C = -10mA, V_{CE} = -5V$<br>$I_C = -100mA, V_{CE} = -5V^*$ |
| Transition Frequency                  | $f_T$         | 125        |      | MHz  | $I_C = -50mA, V_{CE} = -5V$<br>$f = 20MHz$                    |

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



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## TYPICAL CHARACTERISTICS



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