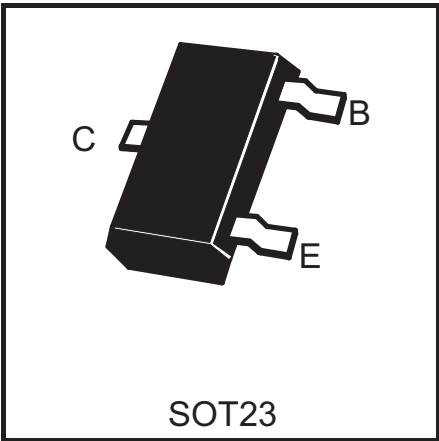


SOT23 PNP SILICON PLANAR SMALL SIGNAL TRANSISTOR

ISSUE 2 – MARCH 2001

FMMTA93

PARTMARKING DETAIL – FMMTA93 – 2E



ABSOLUTE MAXIMUM RATINGS.

| PARAMETER | SYMBOL | VALUE | UNIT |
|--|----------------|-------------|-------------|
| Collector-Emitter Voltage | V_{CEO} | 200 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Continuous Collector Current | I_C | 100 | mA |
| Power Dissipation at $T_{amb}=25^{\circ}C$ | P_{tot} | 300 | mW |
| Operating and Storage Temperature Range | $T_j; T_{stg}$ | -55 to +175 | $^{\circ}C$ |

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

| PARAMETER | SYMBOL | MIN. | MAX. | UNIT | CONDITIONS. |
|---------------------------------------|---------------|------|------|------|-------------------------------|
| Collector-Base Breakdown Voltage | $V_{(BR)CBO}$ | 200 | | V | $I_C=1mA, I_E=0$ |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | 5 | | V | $I_E=100mA, I_C=0$ |
| Collector Cut-Off Current | I_{CBO} | | 0.1 | A | $V_{CB}=30V, I_E=0$ |
| Static Forward Current Transfer Ratio | h_{FE} | 40 | 400 | | $I_C=5mA, V_{CE}=10V^*$ |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | | 0.25 | V | $I_C=10mA, I_B=1mA$ |
| Transition Frequency | f_T | 50 | | MHz | $I_C=5mA, V_{CE}=10V$ |
| Output Capacitance | C_{obo} | | 4 | pF | $V_{CB}=10V, f=140kHz, I_E=0$ |

*Measured under pulsed conditions. Pulse width=300 μ s. Duty cycle 2%
Spice parameter data is available upon request for this device