

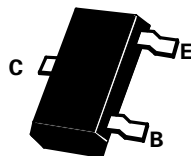
# SOT23 PNP SILICON PLANAR SMALL SIGNAL TRANSISTOR

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## FMMTA70

PARTMARKING DETAIL – FMMTA70 – 2CZ

COMPLIMENTARY TYPE – FMMTA20



SOT23

### ABSOLUTE MAXIMUM RATINGS.

| PARAMETER                                  | SYMBOL         | VALUE       | UNIT        |
|--|----------------|-------------|-------------|
| Collector-Emitter Voltage                  | $V_{CEO}$      | -40         | V           |
| Emitter-Base Voltage                       | $V_{EBO}$      | -4          | V           |
| Continuous Collector Current               | $I_C$          | -100        | mA          |
| Power Dissipation at $T_{amb}=25^{\circ}C$ | $P_{tot}$      | 330         | mW          |
| Operating and Storage Temperature Range    | $T_j; T_{stg}$ | -55 to +150 | $^{\circ}C$ |

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

| PARAMETER                             | SYMBOL        | MIN. | MAX.  | UNIT | CONDITIONS.                           |
|---------------------------------------|---------------|------|-------|------|---------------------------------------|
| Collector-Emitter Breakdown Voltage   | $V_{(BR)CEO}$ | -40  |       | V    | $I_C=-1mA, I_B=0$                     |
| Base-Emitter Breakdown Voltage        | $V_{(BR)EBO}$ | -4   |       | V    | $I_E=-100\mu A, I_C=0$                |
| Collector Base Cut-Off Current        | $I_{CBO}$     |      | -100  | nA   | $V_{CB}=-30V, I_E=0$                  |
| 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                  | $f_T$         | 125  |       | MHz  | $I_C=-5mA, V_{CE}=-10V$<br>$f=100MHz$ |
| Output Capacitance                    | $C_{obo}$     |      | 4     | pF   | $V_{CB}=-10V, I_E=0, f=100KHz$        |

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