SOT23 NPN SILICON PLANAR MEDIUM POWER TRANSISTORS

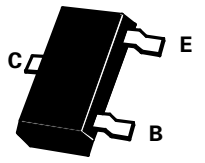
FMMTA06

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FEATURES

* 80 Volt V_{CEO}
* Gain of 50 at I_C=100mA

PARTMARKING DETAIL – FMMTA06 – 1G
FMMTA06R – MA



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	4	V
Continuous Collector Current	I_C	500	mA
Power Dissipation at T_{amb}=25°C	P_{tot}	330	mW
Operating and Storage Temperature Range	T_j:T_{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C).

PARAMETER	SYMBOL	VALUE		UNIT	CONDITIONS.
		MIN.	MAX.		
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	80		V	I_C=1mA*
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	4		V	I_E=100µA
Collector Cut-Off Current	I_{CES}		0.1	µA	V_{CES}=60V
Collector Cut-Off Current	I_{CBO}		0.1	µA	V_{CB}=80V
Static Forward Current Transfer Ratio	h_{FE}	50 50			I_C=10mA, V_{CE}=1V* I_C=100mA, V_{CE}=1V*
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		0.25	V	I_C=100mA, I_B=10mA*
Base-Emitter Turn-On Voltage	$V_{BE(on)}$		1.2	V	I_C=100mA, V_{CE}=1V*
Transition Frequency	f_T	100		MHz	I_C=10mA, V_{CE}=2V f=100MHz

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

ZETEX