

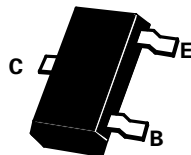
SOT23 NPN SILICON PLANAR SMALL SIGNAL TRANSISTOR

ISSUE 2 – MARCH 1995

FMMTA20

PARTMARKING DETAIL – FMMTA20 – 1C
FMMTA20R – 3C

COMPLEMENTARY TYPE – FMMTA70



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-Base Breakdown Voltage	$V_{(BR)CBO}$	40		V	$I_C=1mA, I_E=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	4		V	$I_E=100mA, I_C=0$
Collector Cut-Off Current	I_{CBO}		0.1	μA	$V_{CB}=30V, I_E=0$
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	$I_C=5mA, V_{CE}=10V$ $f=100MHz$
Output Capacitance	C_{obo}		4	pF	$V_{CB}=10V, f=140kHz, I_E=0$

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