

SOT23 PNP SILICON PLANAR MEDIUM POWER HIGH PERFORMANCE TRANSISTOR

FMMT589

ISSUE 5 - JANUARY 1997

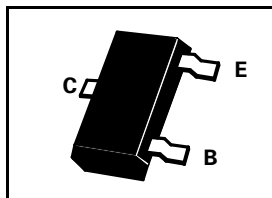


FEATURES

* Low equivalent on-resistance; $R_{CE(sat)} 250m\Omega$ at 1A

PARTMARKING DETAILS - 589

COMPLEMENTARY TYPE - FMMT489



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current	I_{CM}	-2	A
Continuous Collector Current	I_C	-1	A
Base Current	I_B	-200	mA
Power Dissipation at $T_{amb}=25^\circ C$	P_{tot}	500	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	$V_{(BR)CBO}$	-50		V	$I_C = -100\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30		V	$I_C = -10mA^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5		V	$I_E = -100\mu A$
Collector Cut-Off Current	I_{CBO}		-100	nA	$V_{CB} = -30V$
Collector -Emitter Cut-Off Current	I_{CES}		-100	nA	$V_{CES} = -30V$
Emitter Cut-Off Current	I_{EBO}		-100	nA	$V_{EB} = -4V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.25 -0.35 -0.65	V	$I_C = -0.5A, I_B = -50mA^*$ $I_C = -1A, I_B = -100mA^*$ $I_C = -2A, I_B = -200mA^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-1.2	V	$I_C = -1A, I_B = -100mA^*$
Base-Emitter Turn-on Voltage	$V_{BE(on)}$		-1.1	V	$I_C = -1A, V_{CE} = -2V^*$
Static Forward Current Transfer Ratio	h_{FE}	100 100 80 40	300		$I_C = -1mA, V_{CE} = -2V^*$ $I_C = -500mA, V_{CE} = -2V^*$ $I_C = -1A, V_{CE} = -2V^*$ $I_C = -2A, V_{CE} = -2V^*$
Transition Frequency	f_T	100		MHz	$I_C = -100mA, V_{CE} = -5V$ $f = 100MHz$
Output Capacitance	C_{obo}		15	pF	$V_{CB} = -10V, f = 1MHz$

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

For typical Characteristics graphs see FMMT549 datasheet



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