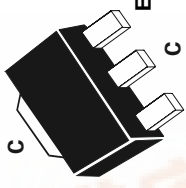


**SOT89 PNP SILICON PLANAR MEDIUM  
POWER HIGH PERFORMANCE TRANSISTOR**

**FCX591**

ISSUE 3 - NOVEMBER 1995



PARTMARKING DETAIL - P1  
COMPLEMENTARY TYPE - FCX491

**ABSOLUTE MAXIMUM RATINGS.**

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	$V_{CBO}$	-80	V
Collector-Emitter Voltage	$V_{CEO}$	-60	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 $T_{amb}=25^{\circ}C$	$P_{tot}$	1	W
Operating and Storage Temperature Range	$T_j; T_{stg}$	-65 to +150	$^{\circ}C$

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

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Breakdown Voltages	$V_{(BR)CBO}$	-80		V	$I_C = -100\mu A, I_E = 0$
	$V_{(BR)CEO}$	-60		V	$I_C = -10mA, I_B = 0^*$
	$V_{(BR)EBO}$	-5		V	$I_E = -100\mu A, I_C = 0$
Collector Cut-Off Current	$I_{CBO}$		-100	nA	$V_{CB} = -60V$
Collector -Emitter Cut-Off Current	$I_{CES}$		-100	nA	$V_{CES} = -60V$
Emitter Cut-Off Current	$I_{EBO}$		-100	nA	$V_{EB} = -4V, I_C = 0$
Saturation Voltages	$V_{CE(sat)}$	-0.3	-0.6	V	$I_C = -500mA, I_B = -50mA^*$
	$V_{BE(sat)}$		-1.2	V	$I_C = -1A, I_B = -100mA^*$
Base-Emitter Turn-on Voltage	$V_{BE(on)}$		-1.0	V	$I_C = -1A, V_{CE} = -5V^*$
Static Forward Current Transfer Ratio	$h_{FE}$	100	300		$I_C = -1mA, V_{CE} = -5V^*$
		80			$I_C = -500mA, V_{CE} = -5V^*$
		15			$I_C = -1A, V_{CE} = -5V^*$
Transition Frequency	$f_T$	150		MHz	$I_C = -50mA, V_{CE} = -10V, f = 100MHz$
Output Capacitance	$C_{obo}$		10	pF	$V_{CB} = -10V, f = 1MHz$

\*Measured under pulsed conditions. Pulse width=300 $\mu$ s. Duty cycle  $\leq$  2%  
For typical Characteristics graphs see FMMT591 datasheet

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