

SOT89 NPN SILICON PLANAR MEDIUM POWER TRANSISTOR

ISSUE 3 - OCTOBER 1995

FEATURES

- * 1 Amp continuous current

COMPLEMENTARY TYPE- FCX591A
PARTMARKING DETAILS - N2

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	5	V
Peak Pulse Current	I_C	1	A
Continuous Collector Current	I_{CM}	2	A
Power Dissipation	P_{TOT}	1	W
Operating and Storage Temperature Range	$T_J; T_{stg}$	-65 to +150	$^{\circ}C$

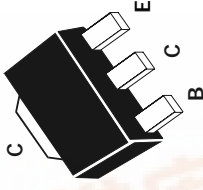
ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Breakdown Voltages	$V_{(BR)CBO}$	40		V	$I_C = 100\mu A$
	$V_{(BR)CEO}$	40		V	$I_C = 10mA^*$
	$V_{(BR)EBO}$	5		V	$I_E = 100\mu A$
Collector Cut-Off Currents	I_{CBO}		100	nA	$V_{CB} = 30V,$
	I_{CES}		100	nA	$V_{CE} = 30V$
Emitter Cut-Off Current	I_{EBO}		100	nA	$V_{EB} = 4V$
Emitter Saturation Voltages	$V_{CE(sat)}$	0.3		V	$I_C = 500mA, I_B = 50mA^*$
		0.5		V	$I_C = 1A, I_B = 100mA^*$
	$V_{BE(sat)}$		1.1	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	h_{FE}	300			$I_C = 1mA, V_{CE} = 5V$
		300	900		$I_C = 500mA, V_{CE} = 5V^*$
		200			$I_C = 1A, V_{CE} = 5V^*$
		35			$I_C = 2A, V_{CE} = 5V^*$
Transitional Frequency	f_T	150		MHz	$I_C = 50mA, V_{CE} = 10V$ $f = 100MHz$
Collector-Base Breakdown Voltage	C_{obo}		10	pF	$V_{CB} = 10V, f = 1MHz$

*Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$
Spice parameter data is available upon request for this device
For typical Characteristics graphs see FMMT491A datasheet

查询FCX491A供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货



FCX491A