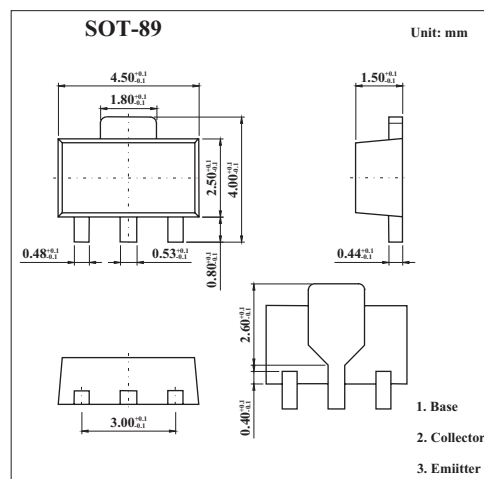


Medium Power Transistor

FCX491A

■ Features

- 1 Amp continuous current.

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	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	$^\circ\text{C}$

FCX491A

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Breakdown Voltages	V(BR)CBO	IC=100μA	40			V
Breakdown Voltages	V(BR)CEO	IC=10mA	40			V
Breakdown Voltages	V(BR)EBO	IE=100μA	5			V
Collector-base cut-off current	ICBO	VCB=30V			100	nA
	ICES	VCE=30V			100	nA
Emitter-base current	IEBO	VEB=4V			100	nA
Collector-emitter saturation voltage *	VCE(sat)	IC=500mA, IB=50mA IC=1A, IB=100mA			0.3 0.5	V
Base-emitter saturation voltage *	VBE(sat)	IC=1A, IB=100mA			1.1	V
Base-emitter ON voltage *	VBE(on)	IC=1A, VCE=5V			1.0	V
Static Forward Current Transfer	hFE	IC=1mA, VCE=5V	300			
		IC=500mA, VCE=5V*	300		900	
		IC=1A, VCE=5V*	200			
		IC=2A, VCE=5V*	35			
Transitional frequency	fT	IC=50mA, VCE=10V f=100MHz	150			MHz
Output capacitance	Cobo	VCB=10V, f=1MHz			10	pF

* Pulse test: tp = 300 μs; d ≤ 0.02.

■ Marking

Marking	N2
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