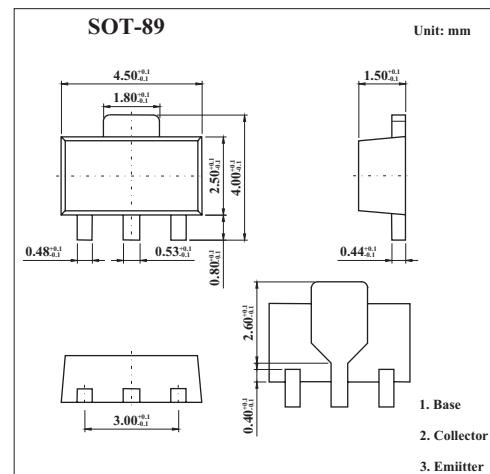


Medium Power Transistor

FCX491A

■ Features

- 1 Amp continuous current.



■ Absolute Maximum Ratings Ta = 25°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	°C

FCX491A■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Breakdown Voltages	$V_{(BR)CBO}$	$I_C=100\mu\text{A}$	40			V
Breakdown Voltages	$V_{(BR)CEO}$	$I_C=10\text{mA}$	40			V
Breakdown Voltages	$V_{(BR)EBO}$	$I_E=100\mu\text{A}$	5			V
Collector-base cut-off current	I_{CBO}	$V_{CB}=30\text{V}$			100	nA
	I_{CES}	$V_{CE}=30\text{V}$			100	nA
Emitter-base current	I_{EBO}	$V_{EB}=4\text{V}$			100	nA
Collector-emitter saturation voltage *	$V_{CE(\text{sat})}$	$I_C=500\text{mA}, I_B=50\text{mA}$ $I_C=1\text{A}, I_B=100\text{mA}$			0.3 0.5	V
Base-emitter saturation voltage *	$V_{BE(\text{sat})}$	$I_C=1\text{A}, I_B=100\text{mA}$			1.1	V
Base-emitter ON voltage *	$V_{BE(\text{on})}$	$I_C=1\text{A}, V_{CE}=5\text{V}$			1.0	V
Static Forward Current Transfer	h_{FE}	$I_C=1\text{mA}, V_{CE}=5\text{V}$	300			
		$I_C=500\text{mA}, V_{CE}=5\text{V}^*$	300		900	
		$I_C=1\text{A}, V_{CE}=5\text{V}^*$	200			
		$I_C=2\text{A}, V_{CE}=5\text{V}^*$	35			
Transitional frequency	f_T	$I_C=50\text{mA}, V_{CE}=10\text{V} f=100\text{MHz}$	150			MHz
Output capacitance	C_{obo}	$V_{CB}=10\text{V}, f=1\text{MHz}$			10	pF

* Pulse test: $t_p = 300 \mu\text{s}; d \leq 0.02$.

■ Marking

Marking	N2
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