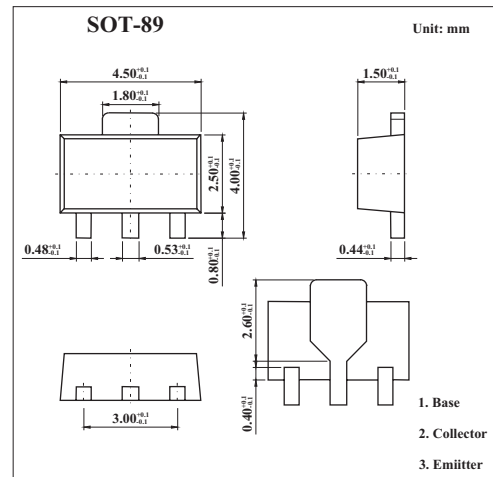


FCX491A

■ 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	$^\circ\text{C}$

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Breakdown Voltages	V _{(BR)CBO}	I _C =100μA	40			V
Breakdown Voltages	V _{(BR)CEO}	I _C =10mA	40			V
Breakdown Voltages	V _{(BR)EBO}	I _E =100μA	5			V
Collector-base cut-off current	I _{CBO}	V _{CB} =30V			100	nA
	I _{CES}	V _{CE} =30V			100	nA
Emitter-base current	I _{EBO}	V _{EB} =4V			100	nA
Collector-emitter saturation voltage *	V _{CE(sat)}	I _C =500mA, I _B =50mA I _C =1A, I _B =100mA			0.3 0.5	V
Base-emitter saturation voltage *	V _{BE(sat)}	I _C =1A, I _B =100mA			1.1	V
Base-emitter ON voltage *	V _{BE(on)}	I _C =1A, V _{CE} =5V			1.0	V
Static Forward Current Transfer	h _{FE}	I _C =1mA, V _{CE} =5V	300			
		I _C =500mA, V _{CE} =5V*	300		900	
		I _C =1A, V _{CE} =5V*	200			
		I _C =2A, V _{CE} =5V*	35			
Transitional frequency	f _T	I _C =50mA, V _{CE} =10V f=100MHz	150			MHz
Output capacitance	C _{obo}	V _{CB} =10V, f=1MHz			10	pF

* Pulse test: t_p = 300 μs; d ≤ 0.02.

■ Marking

Marking	N2
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