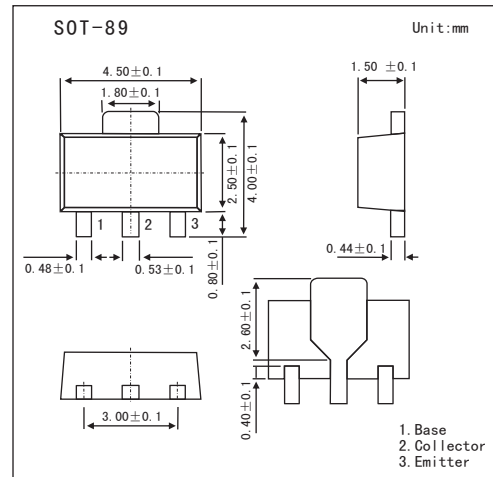


FCX591

■ Features

- Power Collector dissipation: $P_c=1W$
- Continuous Collector Current: $I_c=-1A$



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

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-80	V
Collector-emitter voltage	V_{CEO}	-60	V
Emitter-base voltage	V_{EBO}	-5	V
Continuous Collector Current	I_c	-1	A
Peak collector current	I_{CM}	-2	A
Base current	I_B	-200	mA
Power Collector dissipation	P_c	1	W
Operating and storage temperature range	T_j, T_{stg}	-55 to +150	$^\circ C$

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC=-100μA	-80			V
Collector-emitter breakdown voltage *	V(BR)CEO	IC=-10mA	-60			V
Emitter-base breakdown voltage	V(BR)EBO	IE=-100μA	-5			V
Collector cutoff current	ICBO	VCB=-60V			-100	nA
Emitter cut-off current	IEBO	VEB=-4V, IC=0			-100	nA
Collector-emitter saturation voltage *	VCE(sat)	IC=-1A, IB=-100mA			-0.6	V
Base-emitter saturation voltage *	VBE(sat)	IC=-1A, IB=-100mA			-1.2	V
Base-emitter voltage *	VBE(ON)	IC=-1A, VCE=-5V			-1.0	V
DC current gain	hFE	IC=-1mA, VCE=-5V*	100			
		IC=-500mA, VCE=-5V	100		300	
		IC=-1A, VCE=-5V*	80			
		IC=-2A, VCE=-5V*	15			
Transition frequecy	fT	IC=-50mA, VCE=-10V, f=100MHz	150			MHz
Output capacitance	Cob	VCB=-10V, f=1MHz			10	pF

* Pulse test: tp ≤ 300 μs; d ≤ 0.02.

■ Marking

Marking	P1
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