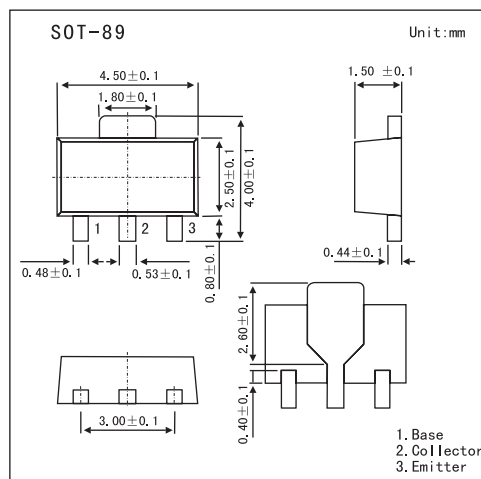


2SD2441

■ Features

- Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	10	V
Collector-emitter voltage	V _{CEO}	10	V
Emitter-base voltage	V _{EBO}	7	V
Collector current	I _C	2	A
Peak collector current	I _{CP}	1.5	A
Collector power dissipation	P _C	1	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base cutoff current	I _{CB0}	V _{CB} = 7 V, I _E = 0			1	μA
Collector-base voltage	V _{CB0}	I _C = 10 μA, I _E = 0	10			V
Collector-emitter voltage	V _{CEO}	I _C = 1 mA, I _B = 0	10			V
Emitter-base voltage	V _{EBO}	I _E = 10 μA, I _C = 0	7			V
Forward current transfer ratio	h _{FE}	V _{CE} = 1 V, I _C = 400 mA	200		700	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 1 A, I _B = 25 mA		0.17	0.25	V
Transition frequency	f _T	V _{CB} = 60 V, I _E = -50 mA, f = 200 MHz		190		MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz		50		pF
Forward voltage	V _{F1}	I _F = 500 mA			1.3	V

■ Marking

Marking	1V
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