2SA2028

Silicon PNP epitaxial planer type

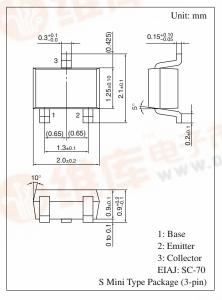
For DC-DC converter

■ Features

- Large current capacitance
- Low collector to emitter saturation voltage
- High-speed switching
- Small type package, allowing downsizing and thinning of the equipment.

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Collector to base voltage	V _{CBO}	-20	V
Collector to emitter voltage	V _{CEO}	-20	V
Emitter to base voltage	V _{EBO}	-5	V
Peak collector current	I_{CP}	-3	A
Collector current	I_{C}	-1	A
Collector power dissipation	P _C	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C



Marking Symbol: AT

■ Electrical Characteristics T_a = 25°C ± 3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector to base voltage	V_{CBO}	$I_{\rm C} = -10 \; \mu \text{A}, \; I_{\rm E} = 0$	-20			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = -1 \text{mA}, I_{\rm B} = 0$	-20		- 14	V
Emitter to base voltage	V_{EBO}	$I_{\rm E} = -10 \; \mu A, \; , \; I_{\rm C} = 0$	-5	THE		V
Forward current transfer ratio *	h _{FE}	$V_{CE} = -2 \text{ V}, I_C = -100 \text{ mA}$	160		560	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -200 \text{ mA}, I_{\rm B} = -10 \text{ mA}$		-40	-100	mV
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		20	30	pF
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}$ f=200 MHz		170		MHz



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