2SA1791

Silicon PNP epitaxial planar type

For low-frequency amplification Complementary to 2SC4656

■ Features

- High forward current transfer ratio f_T
- Small collector output capacitance Cob
- SS-Mini type package allowing downsizing of the equipment and automatic insertion through the tape packing

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-50	V
Collector-emitter voltage (Base open)	V _{CEO}	-50	V
Emitter-base voltage (Collector open)	V_{EBO}	-5	V
Collector current	$I_{\rm C}$	-50	mA
Collector power dissipation	P _C	125	mW
Junction temperature	$T_{\rm j}$	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



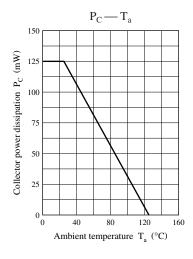
■ Electrical Characteristics $T_a = 25$

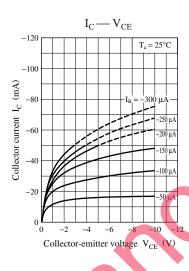
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_{\rm C} = -10 \mu \text{A}$ $I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -1$ mA, $I_B = 0$	-50			V
Emitter-base voltage (Collector open)	$V_{\rm EBO}$	$I_{\rm H} = 10 \mu \text{A}, I_{\rm O} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 10 \text{ V}, I_{B} = 0$			-100	μΑ
Forward current transfer ratio *	h _{EE}	$V_{CE} = -10 \text{ V}, \ I_{C} = -2 \text{ mA}$	200		500	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -1 \text{ mA}$		- 0.1	- 0.3	V
Transition frequency	f	$V_{CB} = -10 \text{ V}, I_E = 2 \text{ mA}, f = 200 \text{ MHz}$		250		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		1.5		pF
(Common base, input open circuited)						

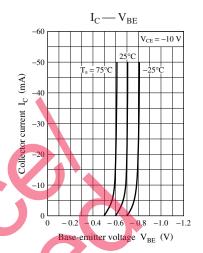
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

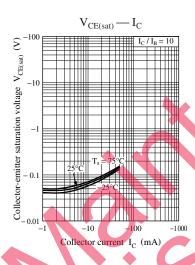
2. *: Rank classification

Rank	Q	R
h_{FE}	200 to 400	250 to 500

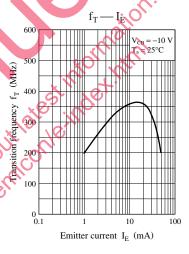


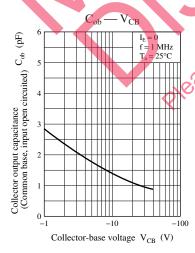












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