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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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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 _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



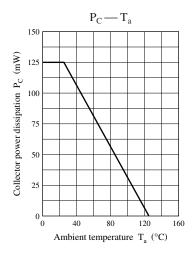
■ Electrical Characteristics T_a = 25°C

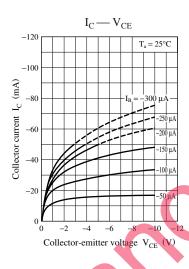
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu \text{A}$ $I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -1$ mA, $I_B = 0$	-50			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm H} = 10 \mu A, I_{\rm O} = 0$	-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 _{CEQ}	$V_{CE} = 10 \text{ V}, I_B = 0$			-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 _T	$V_{CB} = -10 \text{ V}, I_E = 2 \text{ mA}, f = 200 \text{ MHz}$		250		MHz
Collector output capacitance	Cob	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		1.5		pF
(Common base, input open circuited)						

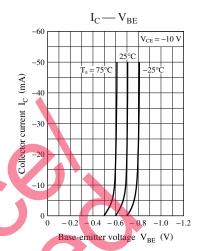
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

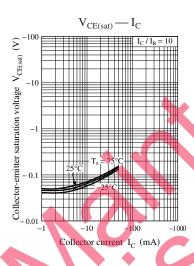
2. *: Rank classification

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

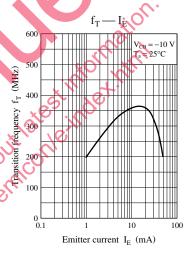


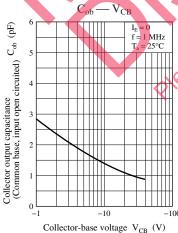












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