2SB1679

Silicon PNP epitaxial planer type

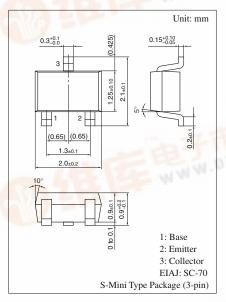
For low-frequency amplification

■ Features

- Large current capacitance
- Low collector to emitter saturation voltage
- 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}	-15	V
Collector to emitter voltage	V _{CEO}	-10	V
Emitter to base voltage	V _{EBO}	-7	V
Peak collector current	I_{CP}	- 0.5	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: 3V

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -10 \text{ V}, I_{E} = 0$			-100	nA
Collector to base voltage	V_{CBO}	$I_{\rm C} = -10 \; \mu \rm A, \; I_{\rm E} = 0$	-15			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-10			V
Emitter to base voltage	V_{EBO}	$I_E = -10 \mu A, I_C = 0$	-7			V
Forward current transfer ratio *1	h _{FE1} *2	$V_{CE} = -2 \text{ V}, I_{C} = -0.5 \text{ A}$	130		350	
	h _{FE2}	$V_{CE} = -2 \text{ V}, I_{C} = -1 \text{ A}$	60			
Collector to emitter saturation voltage *1	V _{CE(sat)}	$I_C = -0.4 \text{ A}, I_B = -8 \text{ mA}$		- 0.16	- 0.3	V
Base to emitter saturation voltage *1	V _{BE(sat)}	$I_C = -0.4 \text{ A}, I_B = -8 \text{ mA}$		- 0.8	-1.2	V
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		130		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		22		pF

Note) *1: Pulse measurement

*2: Rank classification

Rank	R	S
h_{FE1}	130 to 220	180 to 350



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