

2SB1073

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Silicon PNP epitaxial planer type

For low-frequency amplification

Features

- Low collector to emitter saturation voltage $V_{CE(sat)}$.
- Large peak collector current I_{CP} .
- 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	Ratings	Unit
Collector to base voltage	V_{CBO}	-30	V
Collector to emitter voltage	V_{CEO}	-20	V
Emitter to base voltage	V_{EBO}	-7	V
Peak collector current	I_{CP}	-7	A
Collector current	I_C	-4	A
Collector power dissipation	P_C^*	1	W
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

* Printed circuit board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion

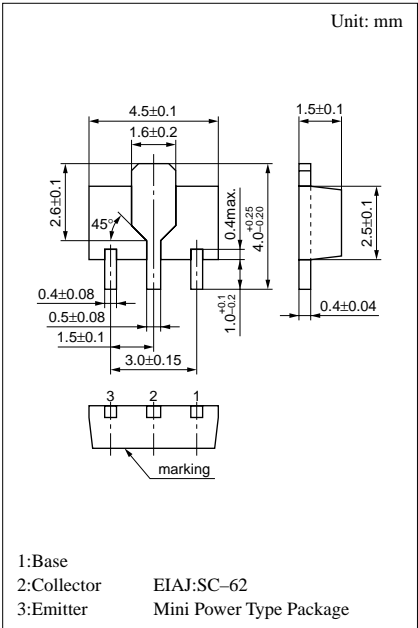
Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -30V, I_E = 0$			-100	nA
Emitter cutoff current	I_{EBO}	$V_{EB} = -7V, I_C = 0$			-100	nA
Collector to base voltage	V_{CBO}	$I_C = -10\mu A, I_E = 0$	-30			V
Collector to emitter voltage	V_{CEO}	$I_C = -1mA, I_B = 0$	-20			V
Emitter to base voltage	V_{EBO}	$I_E = -10\mu A, I_C = 0$	-7			V
Forward current transfer ratio	h_{FE}^{*1}	$V_{CE} = -2V, I_C = -2A^{*2}$	120		315	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = -3A, I_B = -0.1A^{*2}$		-0.6	-1	V
Transition frequency	f_T	$V_{CB} = -6V, I_E = 50mA, f = 200MHz$		120		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -20V, I_E = 0, f = 1MHz$		40		pF

^{*2} Pulse measurement

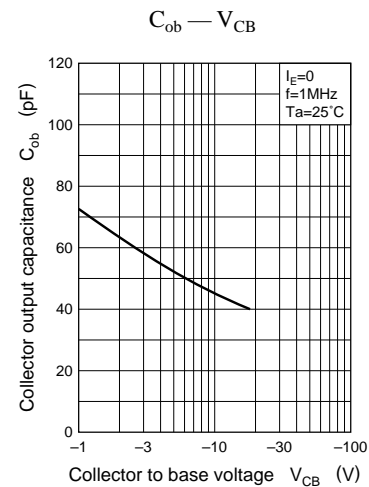
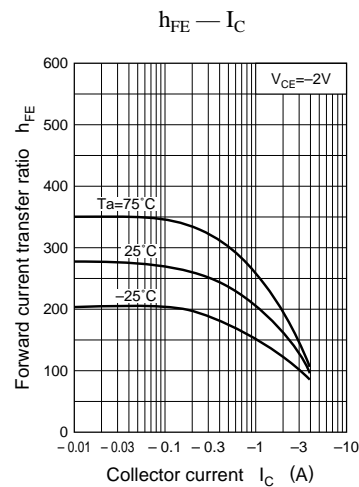
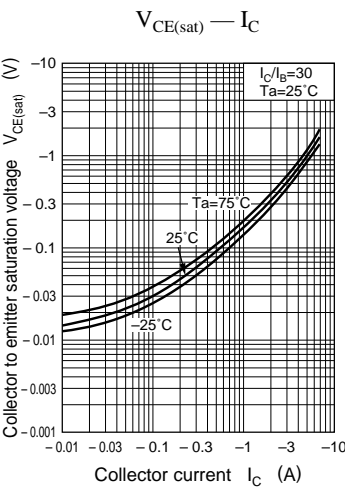
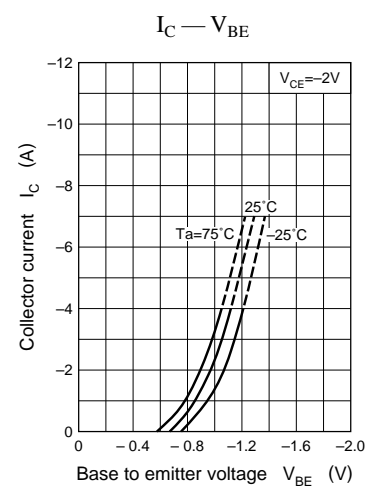
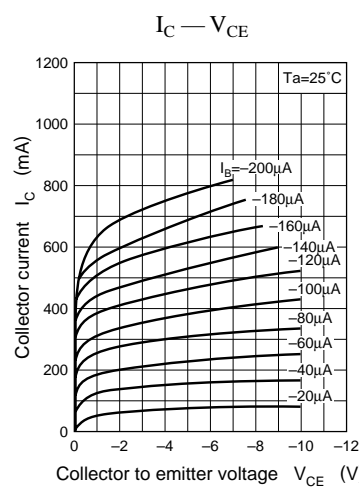
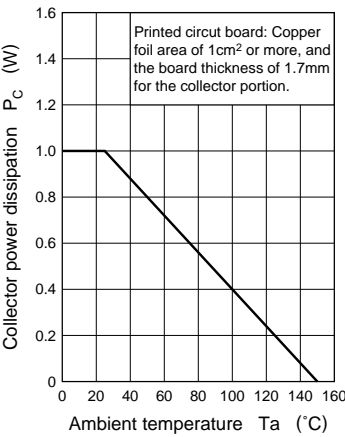
^{*1} h_{FE} Rank classification

Rank	Q	R
h_{FE}	120 ~ 205	180 ~ 315
Marking Symbol	IQ	IR



Marking symbol : I

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