2SB1073

Silicon PNP epitaxial planar type

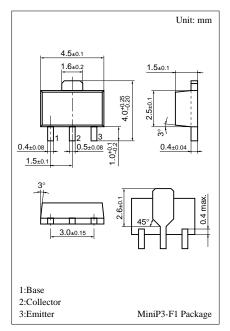
For low-frequency amplification

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.

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	А
Collector current	I_{C}	-4	А
Collector power dissipation	P_{C}^{*}	1	W
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 ~ +150	°C

Absolute Maximum Ratings (Ta=25°C)



Marking symbol : I

* Printed circuit board: Copper foil area of 1cm ² or more, and	d the board
thickness of 1.7mm for the collector portion	

Electrical Characteristics (Ta=25°C)

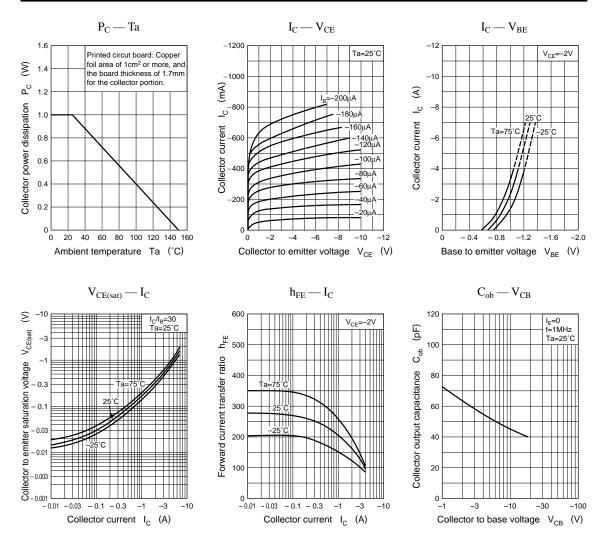
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = -30V, I_E = 0$			- 0.1	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = -7V, I_C = 0$			- 0.1	μΑ
Collector to base voltage	V _{CBO}	$I_C = -10\mu A, I_E = 0$	-30			V
Collector to emitter voltage	V _{CEO}	$I_C = -1 mA, I_B = 0$	-20			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = -10 \mu A, I_{\rm C} = 0$	-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)}	$I_{\rm C} = -3A, I_{\rm B} = -0.1A^{*2}$		- 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

*1hFE Rank classification

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

Panasonic



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