## 2SB1218A

### Silicon PNP epitaxial planer type

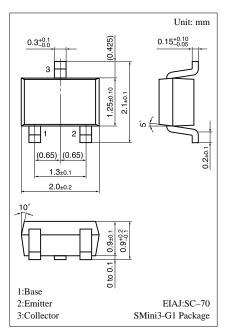
For general amplification Complementary to 2SD1819A

#### Features

- High foward current transfer ratio h<sub>FE</sub>.
- S-Mini 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	$V_{CBO}$	-45	V
Collector to emitter voltage	$V_{CEO}$	-45	V
Emitter to base voltage	$V_{\mathrm{EBO}}$	-7	V
Peak collector current	$I_{CP}$	-200	mA
Collector current	$I_{C}$	-100	mA
Collector power dissipation	$P_{C}$	150	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	<b>−55 ~ +150</b>	°C



Marking symbol: B

#### Electrical Characteristics (Ta=25°C)

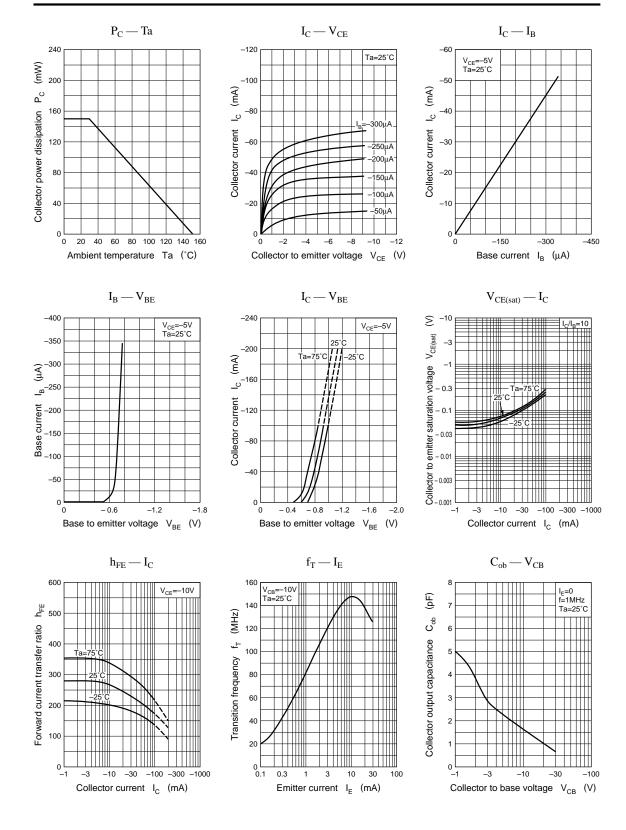
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = -20V, I_E = 0$			-0.1	μА
	I <sub>CEO</sub>	$V_{CE} = -10V, I_{B} = 0$			-100	μА
Collector to base voltage	V <sub>CBO</sub>	$I_{\rm C} = -10 \mu A, I_{\rm E} = 0$	-45			V
Collector to emitter voltage	V <sub>CEO</sub>	$I_{\rm C} = -2mA, I_{\rm B} = 0$	-45			V
Emitter to base voltage	V <sub>EBO</sub>	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-7			V
Forward current transfer ratio	h <sub>FE</sub> *	$V_{CE} = -10V, I_{C} = -2mA$	160		460	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -100 \text{mA}, I_B = -10 \text{mA}$		- 0.3	- 0.5	V
Transition frequency	f <sub>T</sub>	$V_{CB} = -10V, I_E = 1 \text{mA}, f = 200 \text{MHz}$		80		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = -10V, I_E = 0, f = 1MHz$		2.7		pF

\*h<sub>FE</sub> Rank classification

Rank	Q	R	S
$h_{FE}$	160 ~ 260	210 ~ 340	290 ~ 460
Marking Symbol	BQ	BR	BS

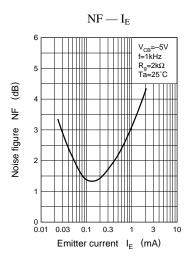
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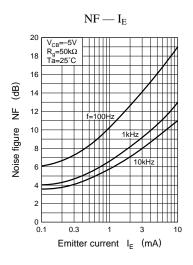
Transistor 2SB1218A

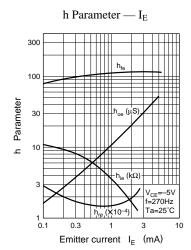


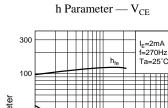
Panasonic 233

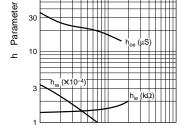
Transistor 2SB1218A











Collector to emitter voltage  $V_{CE}$  (V)

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