2SB1219, 2SB1219A

Silicon PNP epitaxial planer type

For general amplification

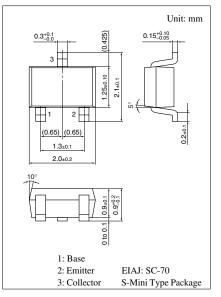
Complementary to 2SD1820 and 2SD1820A

Features

- \bullet Large collector current I_{C}
- S-mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings $T_a = 25^{\circ}C$							
Parameter		Symbol	Rating	Unit			
Collector to	2SB1219	V _{CBO}	-30	V			
base voltage	2SB1219A		-60				
Collector to	2SB1219	V _{CEO}	-25	V			
emitter voltage	2SB1219A		-50				
Emitter to base voltage		V_{EBO}	-5	V			
Peak collector current		I _{CP}	-1	А			
Collector current		I _C	-500	mA			
Collector power dissipation		P _C	150	mW			
Junction temperature		Tj	150	°C			
Storage temperature		T _{stg}	-55 to +150	°C			

Absolute Maximum Ratings $T_a = 25^{\circ}C$



Marking Symbol

- 2SB1219 : C
- 2SB1219A: D

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

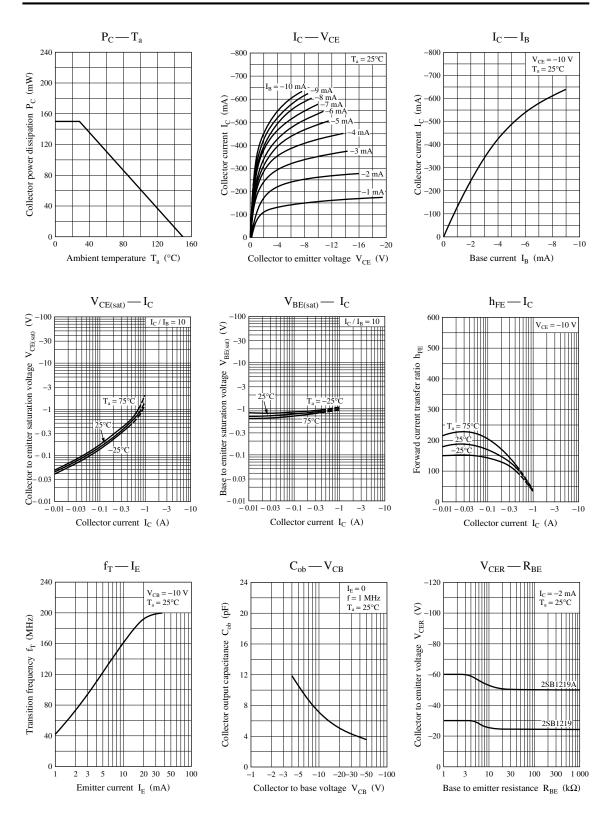
Paramete	r	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	ıt	I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector to	2SB1219	V _{CBO}	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-30			V
base voltage	2SB1219A			-60			
Collector to	2SB1219	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-25			V
emitter voltage	2SB1219A			-50			
Emitter to base voltage		V _{EBO}	$I_E = -10 \ \mu A, \ I_C = 0$	-5			V
Forward current transfer ratio *1		h _{FE1} *2	$V_{CE} = -10 \text{ V}, I_C = -150 \text{ mA}$	85		340	
		h _{FE2}	$V_{CE} = -10 \text{ V}, I_C = -500 \text{ mA}$	40			
Collector to emitter saturation voltage *1		V _{CE(sat)}	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		- 0.35	- 0.6	V
Base to emitter saturation voltage *1		V _{BE(sat)}	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		-1.1	-1.5	V
Transition frequency		f _T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance		C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF

Note) *1: Pulse measurement

*2: Rank classification

R	ank	Q	R	S	No-rank
1	n _{FE1}	85 to 170	120 to 240	170 to 340	85 to 340
Marking	2SB1219	CQ	CR	CS	С
symbol	2SB1219A	DQ	DR	DS	D

Product of no-rank is not classified and have no indication for rank.



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