Transistor Panasonic

2SB1219, 2SB1219A

Silicon PNP epitaxial planar type

For general amplification

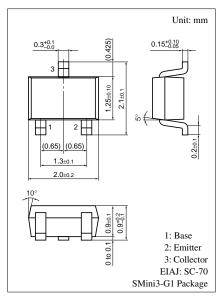
Complementary to 2SD1820 and 2SD1820A

■ Features

- 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 $T_a = 25$ °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	2SA1219A		-50	
Emitter to base voltage		V_{EBO}	-5	V
Peak collector current		I_{CP}	-1	A
Collector current		I_C	- 0.5	A
Collector power dissipation		P_{C}	150	mW
Junction temperature		T _j	150	°C
Storage temperature		T_{stg}	-55 to +150	°C



Marking symbol: C (2SB1219) D (2SB1219A)

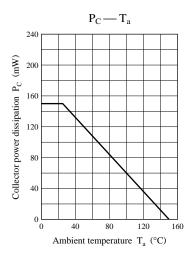
■ Electrical Characteristics $T_a = 25$ °C

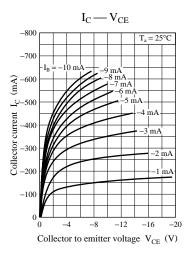
Parameter	r	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff curren	t	I_{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector to base	2SB1219	V _{CBO}	$I_{\rm C} = -10 \; \mu \text{A}, \; I_{\rm E} = 0$	-30			V
voltage	2SB1219A			-60			
Collector to emitter	2SB1219	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-25			V
voltage	2SA1219A			-50			
Emitter to base voltage		V_{EBO}	$I_{\rm E} = -10 \; \mu \text{A}, \; I_{\rm C} = 0$	-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)}	$I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$		- 0.35	- 0.6	V
Base to emitter saturation voltage *1		V _{BE(sat)}	$I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$		-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 capac	itance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF

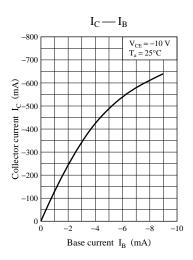
Note) *1: Pulse measurement

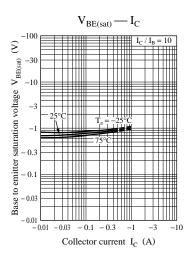
*2: hFE Rank classification

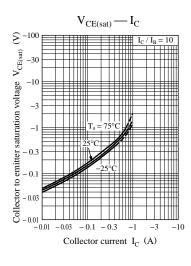
Rank		Q	R	S
h _{FE1}		85 to 170	120 to 240	170 to 340
Marking	2SB1219	CQ	CR	CS
symbol	2SB1219A	DQ	DR	DS

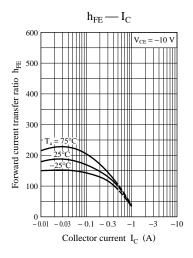


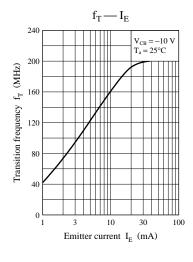


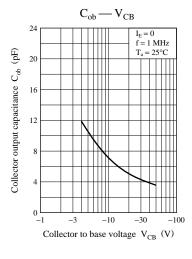


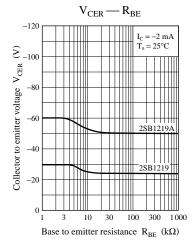












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