2SB1219A

Silicon PNP epitaxial planar type

For general amplification Complementary to 2SD1820A

Features

- Large collector current I_C
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

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



Package

SMini3-G1

 Pin Name 1. Base

Code

Marking Symbol: D

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm E} = 0$	-60	of the		V	
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50	2		V	
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \mu {\rm A}, I_{\rm C} = 0$	-5			V	
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -20 V, I_E = 0$			- 0.1	μΑ	
Forward current transfer ratio *1	h _{FE1} *2	$V_{\rm CE} = -10 \text{ V}, I_{\rm C} = -150 \text{ mA}$	85		340		
	h _{FE2}	$V_{CE} = -10 \text{ V}, I_C = -500 \text{ mA}$	40				
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		- 0.35	-0.60	V	
Base-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 (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF	

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *1: Pulse measurement

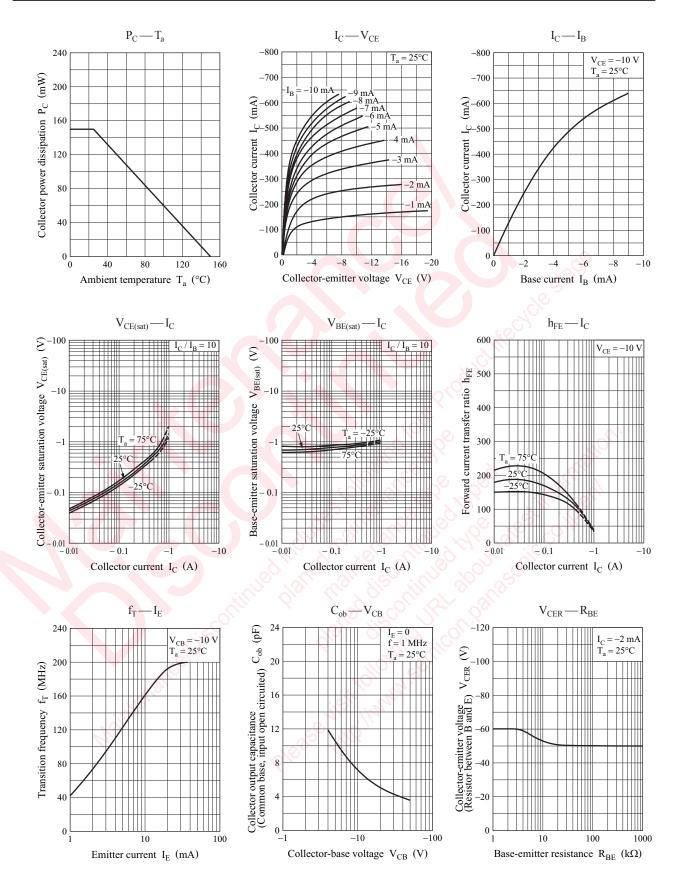
*2: Rank classification

Rank	Q	R	S	No-rank
h _{FE1}	85 to 170	120 to 240	170 to 340	85 to 340
Marking symbol	DQ	DR	DS	D

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

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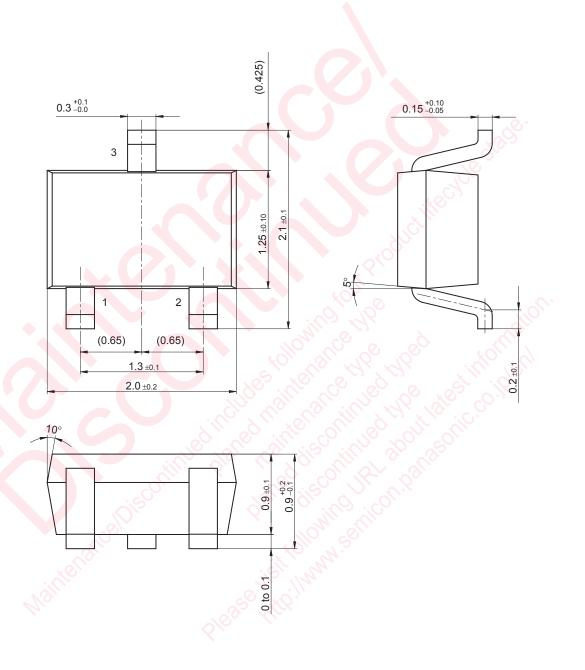
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Unit: mm



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