2SA1619, 2SA1619A

Silicon PNP epitaxial planar type

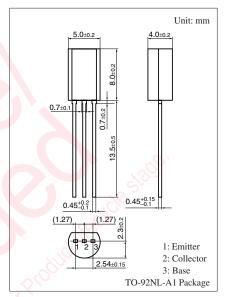
For low-frequency power amplification and driver amplification Complementary to 2SC4208 and 2SC4208A

■ Features

 Allowing supply with the radial taping and automatic insertion possible

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter			Unit
2SA1619	V _{CBO}	-30	V
2SA1619A		-60	
2SA1619	V_{CEO}	-25	V
2SA1619A		-50	
Emitter-base voltage (Collector open)			V
Collector current			A
Peak collector current			Α
Collector power dissipation			W
Junction temperature			°CO
Storage temperature			°C
	2SA1619A 2SA1619 2SA1619A ector open)	2SA1619A 2SA1619 V _{CEO} 2SA1619A lector open) V _{EBO} I _C I _{CP}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage	2SA1619	V _{CBO}	$I_C = -10 \mu A, I_E = 0$	-30	80,		V
(Emitter open)	2SA1619A	J. J.	6. 1.90 000	-60)		
Collector-emitter voltage	2SA1619	V _{CEO}	$I_C = -10 \text{ mA}, I_B = 0$	-25			V
(Base open)	2SA1619A		9); On; in o	-50			
Emitter-base voltage (Collector open)		V_{EBO}	$I_E = -10 \ \mu A, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)		I_{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Forward current transfer ratio *1		h _{FE1} *2	$V_{CE} = -10 \text{ V}, I_{C} = -150 \text{ mA}$	85	160	340	_
		h _{FE2}	$V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}$	40	90		
Collector-emitter saturation voltage *1		V _{CE(sat)}	$I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$		- 0.35	- 0.60	V
Base-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 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.

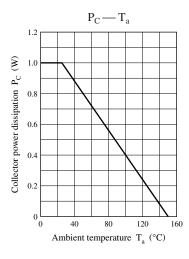
2. *1: Pulse measurement

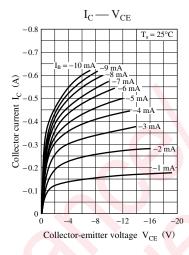
*2: Rank classification

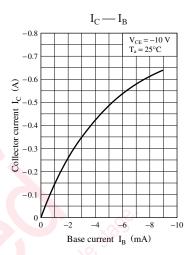
Rank	Q	R	S	
h_{FE1}	80 to 170	120 to 240	170 to 340	

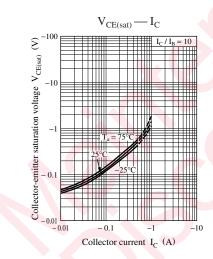
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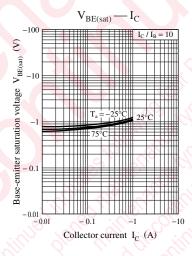
Panasonic

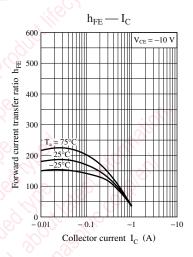


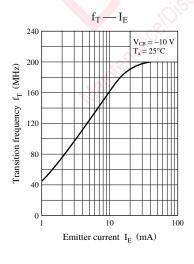


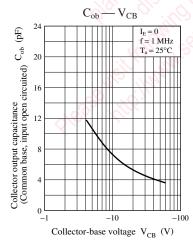


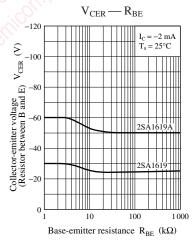




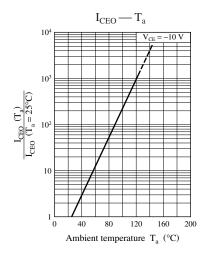


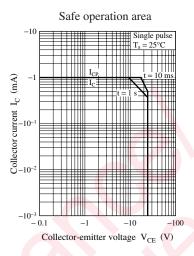






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