2SA1619, 2SA1619A

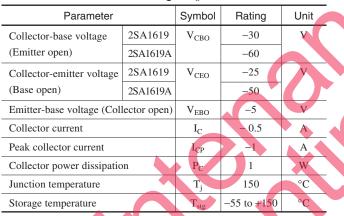
Silicon PNP epitaxial planar type

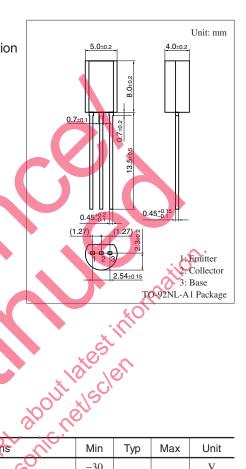
For low-frequency power amplification and driver amplification Complementary to 2SC4208 and 2SC4208A

Features

• Allowing supply with the radial taping and automatic insertion possible

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





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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage 2SA1619	V _{CBO}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm E} = 0$	-30			V
(Emitter open) 2SA1619A		in the not	-60			
Collector-emitter voltage 2SA1619	VCEO	$I_{\rm C} = -10$ mA, $I_{\rm B} = 0$	-25			V
(Base open) 2SA1619A		80 ¹¹ .0 ¹¹	-50			
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -10$ µA, $I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -20 \text{ V}, \text{ I}_{E} = 0$			- 0.1	μΑ
Forward current transfer ratio *1	hre *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	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	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF
(Common base, input open circuited)						

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

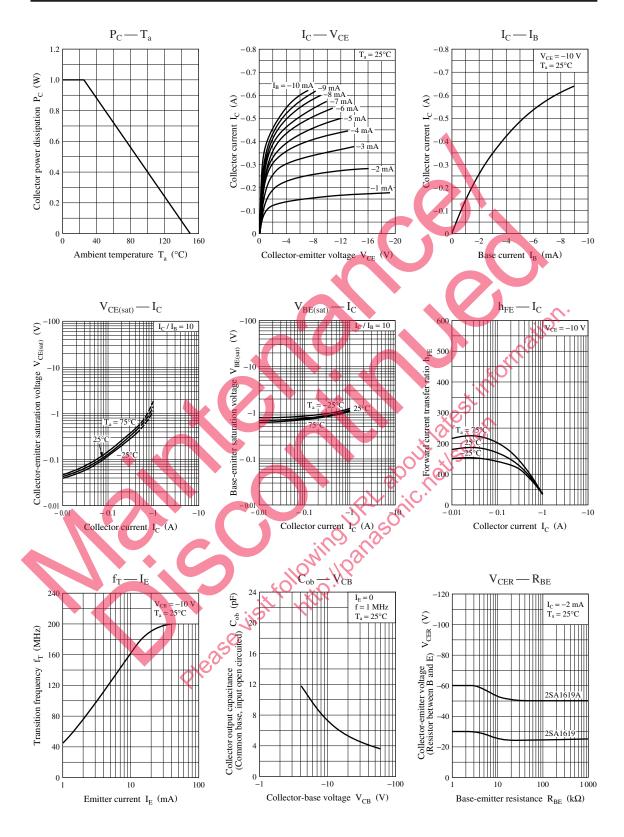
2. *1: Pulse measurement

*2: Rank classification

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

2SA1619, 1619A





Panasonic

 $I_{CEO} - T_a$ Safe operation area 10^{4} -10Single pulse $V_{CE} = -10 V$ I 103 $(P_{\rm L})^{-1}$ Collector current $I_{\rm C}$ $(P_{\rm L})^{-1}$ $(P_{\rm L})^{-1}$ I_C: $\frac{I_{CEO}}{I_{CEO}}\frac{(T_a)}{(T_a=25^\circ C)}$ 102 10 1 L 0 40 80 120 160 200 -1-10 -100Collector-emitter voltage V_{CE} Ambient temperature T_a (°C) Please visit following upt about latestimormation.

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