

2SA1619, 2SA1619A

Silicon PNP epitaxial planer type

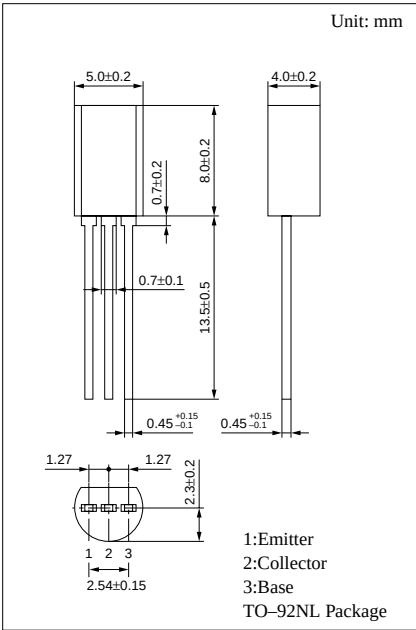
For low-frequency power amplification and driver amplification
Complementary to 2SC4208 and 2SC4208A

Features

- Complementary pair with 2SC4208 and 2SC4208A.
- Allowing supply with the radial taping and automatic insertion possible.

Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Ratings	Unit
Collector to base voltage	2SA1619	V _{CBO}	−30	V
	2SA1619A		−60	
Collector to emitter voltage	2SA1619	V _{CEO}	−25	V
	2SA1619A		−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	1	W
Junction temperature		T _j	150	°C
Storage temperature		T _{stg}	−55 ~ +150	°C

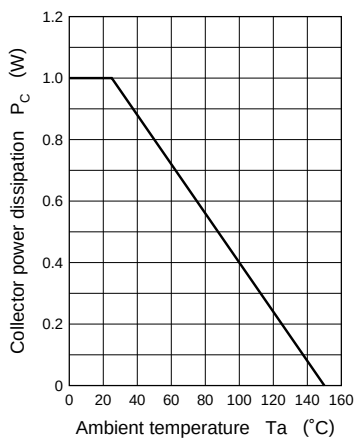
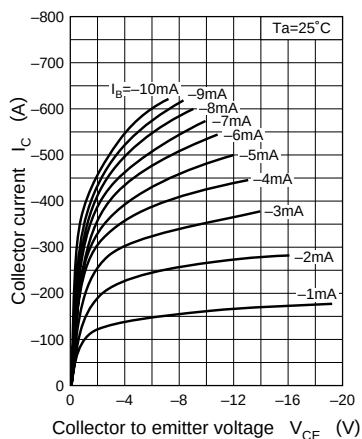
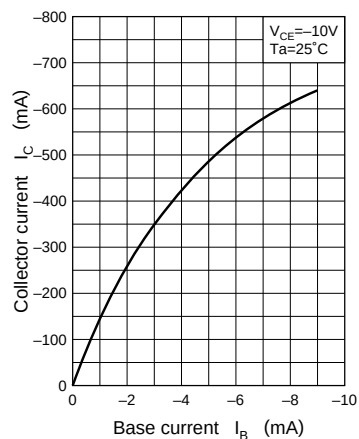
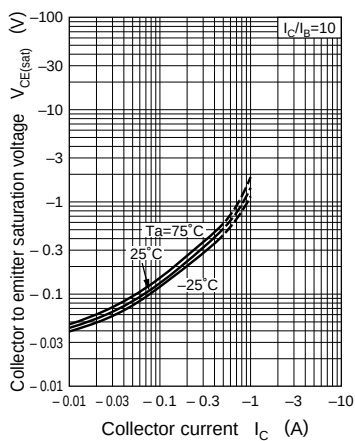
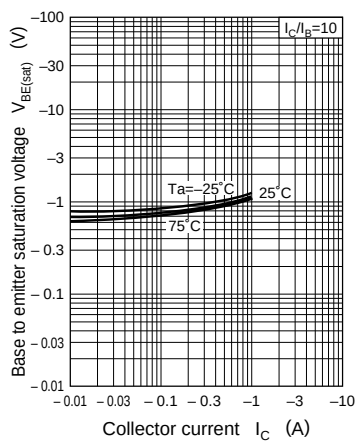
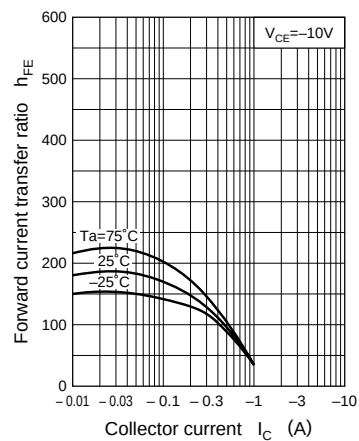
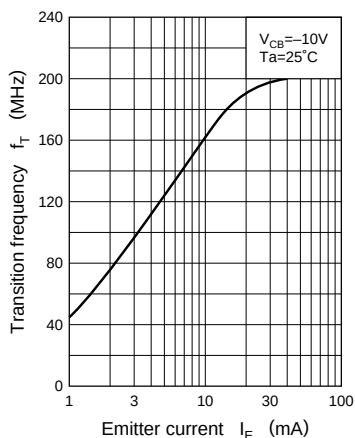
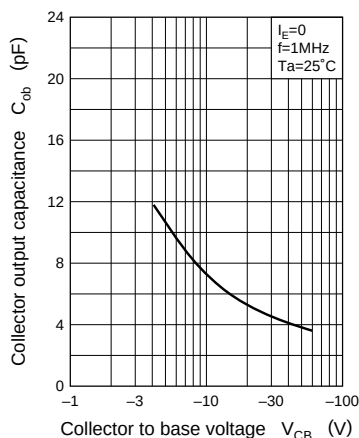


Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = -20V, I _E = 0			-0.1	μA
Collector to base voltage	2SA1619 2SA1619A	V _{CBO}	I _C = -10μA, I _E = 0	-30		V
				-60		
Collector to emitter voltage	2SA1619 2SA1619A	V _{CEO}	I _C = -10mA, I _B = 0	-25		V
				-50		
Emitter to base voltage	V _{EBO}	I _E = -10μA, I _C = 0	-5			V
Forward current transfer ratio	h _{FE1} *	V _{CE} = -10V, I _C = -150mA	85	160	340	
	h _{FE2}	V _{CE} = -10V, I _C = -500mA	40			
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = -300mA, I _B = -30mA		-0.35	-0.6	V
Base to emitter saturation voltage	V _{BE(sat)}	I _C = -300mA, I _B = -30mA		-1.1	-1.5	V
Transition frequency	f _T	V _{CB} = -10V, I _E = 50mA, f = 200MHz		200		MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz		6	15	pF

*h_{FE1} Rank classification

Rank	Q	R	S
h _{FE1}	85 ~ 170	120 ~ 240	170 ~ 340

$P_C - T_a$  $I_C - V_{CE}$  $I_C - I_B$  $V_{CE(sat)} - I_C$  $V_{BE(sat)} - I_C$  $h_{FE} - I_C$  $f_T - I_E$  $C_{ob} - V_{CB}$  $V_{CER} - R_{BE}$ 