2SC4208, 2SC4208A

Silicon NPN epitaxial planar type

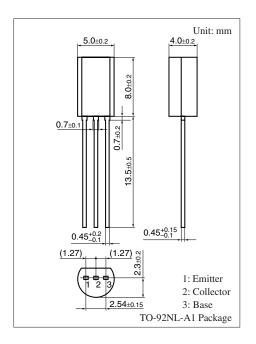
For low-frequency output amplification and driver amplification Complementary to 2SA1619 and 2SA1619A

■ Features

- \bullet Low collector-emitter saturation voltage $V_{\text{CE}(\text{sat})}$
- Output of 1 W is obtained with a complementary pair with 2SA1619 and 2SA1619A
- Allowing supply with the radial taping

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage	2SC4208	V _{CBO}	30	V
(Emitter open)	2SC4208A		60	
Collector-emitter voltage	2SC4208	V _{CEO}	25	V
(Base open)	2SC4208A		50	
Emitter-base voltage (Coll	V_{EBO}	7	V	
Collector current	I_C	500	mA	
Peak collector current	I_{CP}	1	A	
Collector power dissipation		P _C	1	W
Junction temperature	T_{j}	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	



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

Symbol	Conditions	Min	Тур	Max	Unit
8 V _{CBO}	$I_{\rm C} = 10 \; \mu \rm A, \; I_{\rm E} = 0$	30			V
A		60			
8 V _{CEO}	$I_C = 10 \text{ mA}, I_B = 0$	25			V
A		50			
V _{EBO}	$I_E = 10 \ \mu A, I_C = 0$	7			V
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			
V _{CE(sat)}	$I_C = 300 \text{ mA}, I_B = 30 \text{ mA}$		0.35	0.60	V
V _{BE(sat)}	$I_C = 300 \text{ mA}, I_B = 30 \text{ mA}$		1.1	1.5	V
f_T	$V_{CB} = 10 \text{ V}, I_E = -50 \text{ mA}, f = 200 \text{ MHz}$		150		MHz
C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF
8 1)	V_{CBO} V_{CBO} V_{CEO} V_{EBO} V_{EBO} V_{EEO} V_{EEO} V_{EEO} V_{EEO} V_{EEO} V_{EEO}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

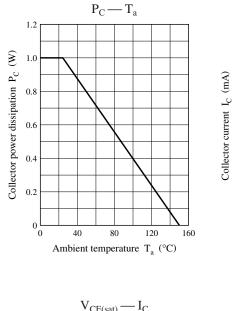
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

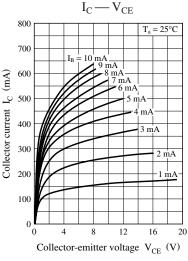
2. *1: Pulse measurement

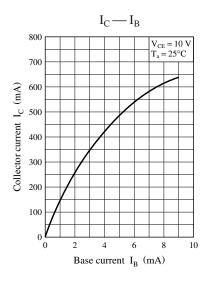
*2: Rank classification

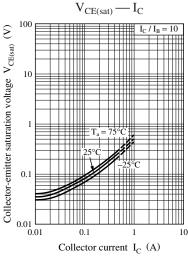
Rank	Q	R	S	
h _{FE1}	85 to 170	120 to 240	170 to 340	

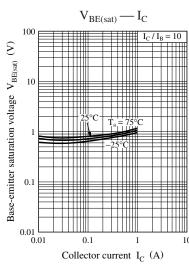
Panasonic

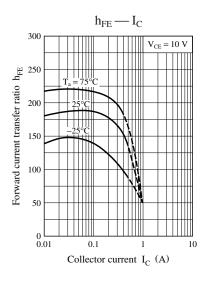


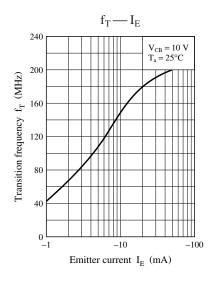


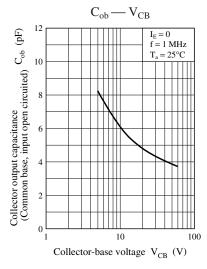


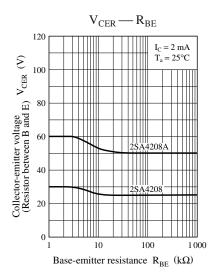




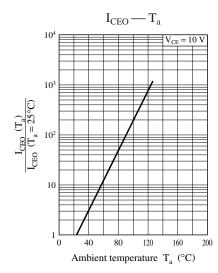


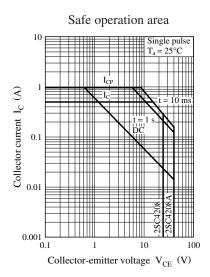






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