

2SC4208, 2SC4208A

Silicon NPN epitaxial planar type

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

■ Features

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

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

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	2SC4208	V_{CBO}	30	V
	2SC4208A		60	
Collector-emitter voltage (Base open)	2SC4208	V_{CEO}	25	V
	2SC4208A		50	
Emitter-base voltage (Collector open)	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	$^\circ\text{C}$	
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$	

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

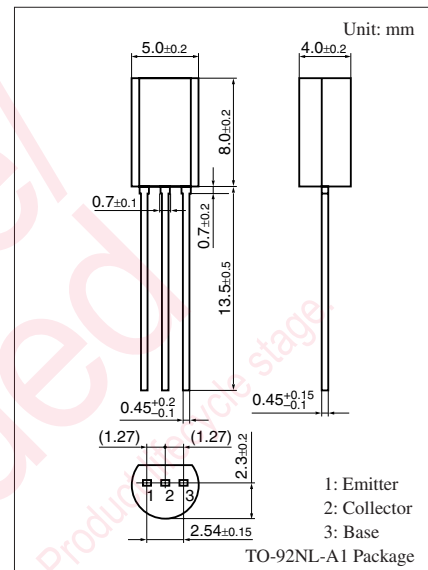
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	2SC4208	$I_C = 10 \mu\text{A}, I_E = 0$	30			V
	2SC4208A					
Collector-emitter voltage (Base open)	2SC4208	$I_C = 10 \text{mA}, I_B = 0$	25			V
	2SC4208A					
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \mu\text{A}, I_C = 0$	7			V
Forward current transfer ratio *1	h_{FE1} *2	$V_{CE} = 10 \text{V}, I_C = 150 \text{mA}$	85		340	—
		$V_{CE} = 10 \text{V}, I_C = 500 \text{mA}$	40			
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	$V_{BE(sat)}$	$I_C = 300 \text{mA}, I_B = 30 \text{mA}$		1.1	1.5	V
Transition frequency	f_T	$V_{CB} = 10 \text{V}, I_E = -50 \text{mA}, f = 200 \text{MHz}$		150		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

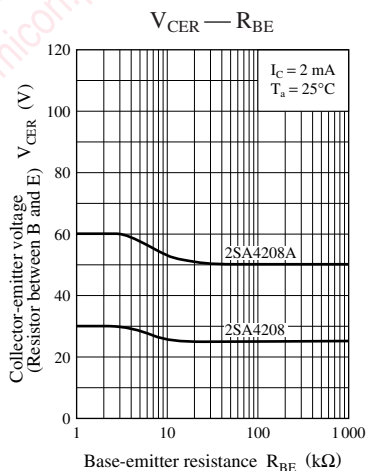
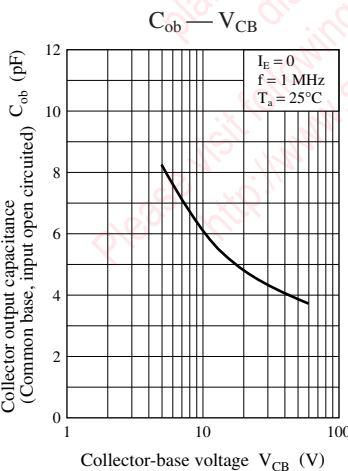
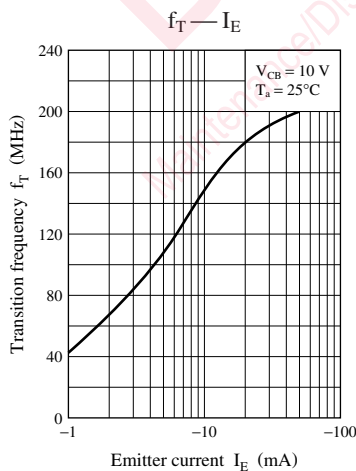
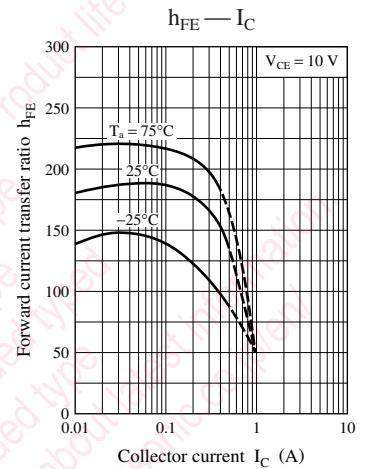
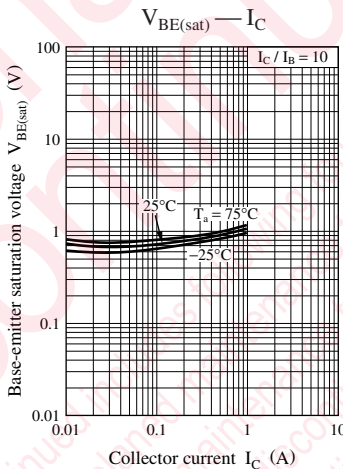
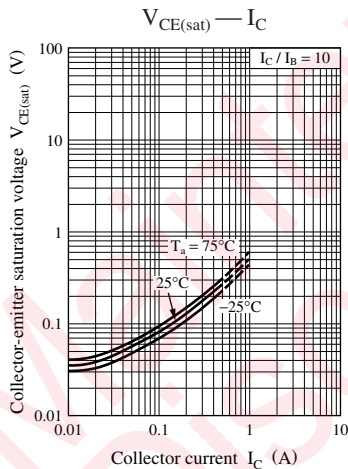
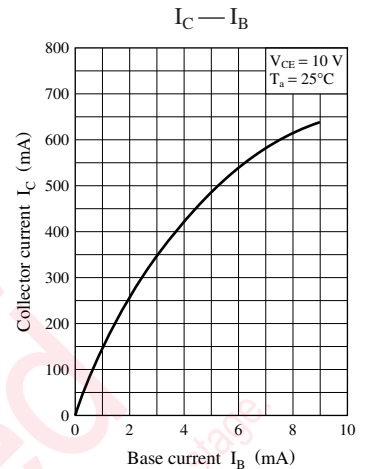
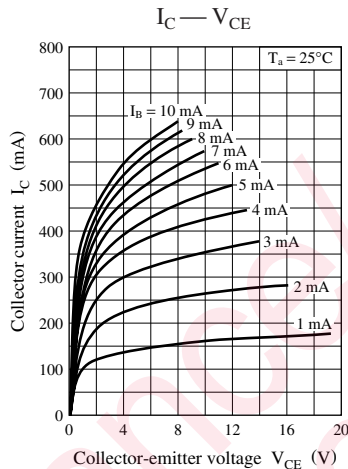
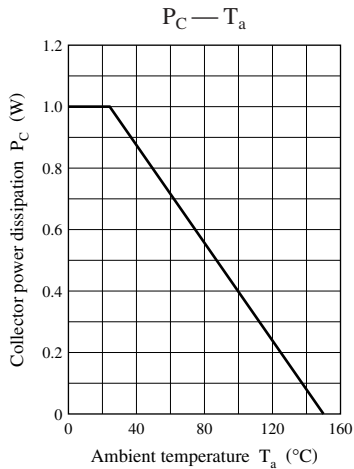
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

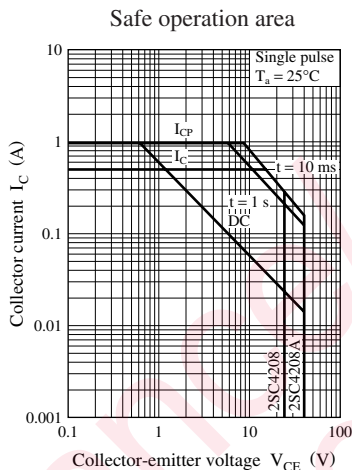
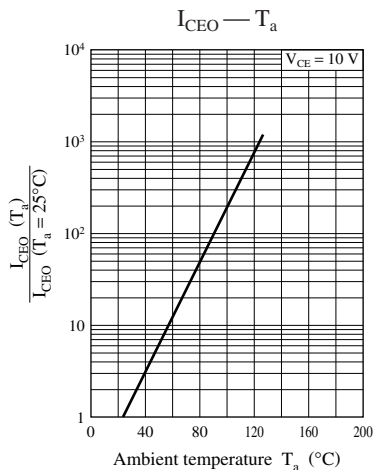
2. *1: Pulse measurement

*2: Rank classification

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







Maintenance/Discontinued includes following four Product lifecycle stage.
 planned maintenance type
 maintenance type
 planned discontinued type
 discontinued type
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reliability are required, or if the failure or malfunction of the prod-

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