2SA1096, 2SA1096A

Silicon PNP epitaxial planar type

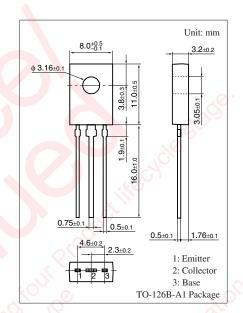
For low-frequency power amplification Complementary to 2SC2497, 2SC2497A

■ Features

- Output of 5 W can be obtained by a complementary pair with 2SC2497 and 2SC2497A
- TO-126B package which requires no insulation plate for installation to the heat sink

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

Parameter			
Collector-base voltage (Emitter open)			V
1096	V _{CEO}	-50	V
1096A		-60	
Emitter-base voltage (Collector open)			V
Collector current			
Peak collector current			
Collector power dissipation			w
Junction temperature			°C
Storage temperature			
	A1096 A1096A	A1096A V _{CEO}	Vopen Vope



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

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitt	ter open)	V_{CBO}	$I_{\rm C} = -1 \text{mA}, I_{\rm E} = 0$	-70			V
Collector-emitter voltage	2SA1096	V_{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
(Base open)	2SA1096A		all dis all a	-60			
Collector-base cutoff current (Em	itter open)	I_{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			-1	μΑ
Collector-emitter cutoff current (E	Base open)	I_{CEO}	$V_{CE} = -10 \text{ V}, I_B = 0$			-100	μΑ
Emitter-base cutoff current (Colle	ector open)	I_{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$			-10	μΑ
Forward current transfer ratio	*1,2	h_{FE}	$V_{CE} = -5 \text{ V}, I_C = -1 \text{ A}$	80		220	_
Collector-emitter saturation v	oltage	V _{CE(sat)}	$I_C = -1.5 \text{ A}, I_B = -0.15 \text{ A}$			-1	V
Base-emitter saturation voltage	ge	V _{BE(sat)}	$I_C = -1.5 \text{ A}, I_B = -0.15 \text{ A}$			-1.5	V
Transition frequency		f_T	$V_{CB} = -5 \text{ V}, I_E = 0.5 \text{ A}, f = 200 \text{ MHz}$		150		MHz
Collector output capacitance		C _{ob}	$V_{CB} = -20 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		55		pF
(Common base, input open c	circuited)						

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

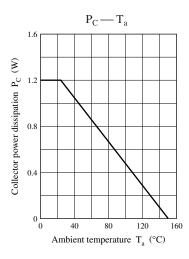
2. *1: Pulse measurement

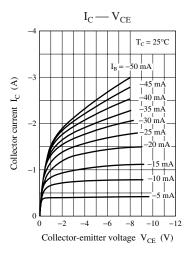
*2: Rank classification

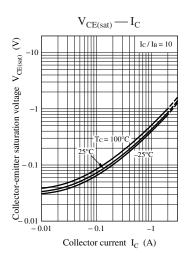
Rank	Q	R		
h_{FE}	80 to 160	120 to 220		

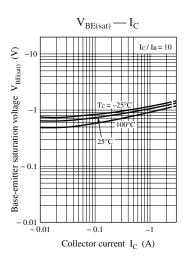
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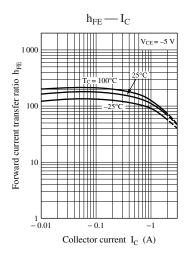
Panasonic

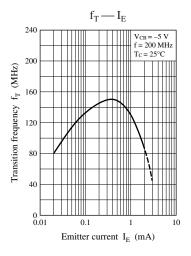


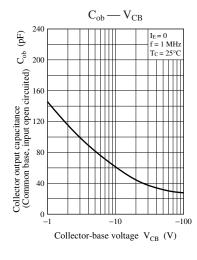


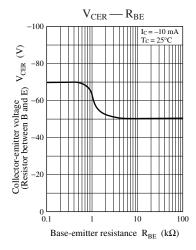


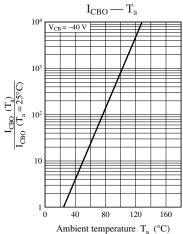




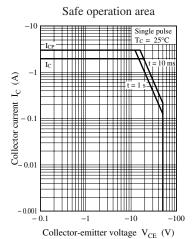








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