2SA1096, 2SA1096A

Silicon PNP epitaxial planar type

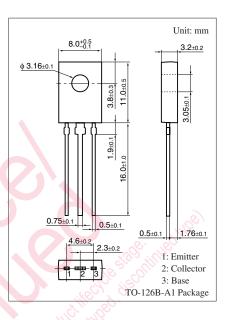
For low-frequency power amplification Complementary to 2SC2497, 2SC2497A

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	Symbol	Rating	Unit			
Collector-base voltage (Emitter open)		V _{CBO}	-70	V		
Collector-emitter voltage	2SA1096	V _{CEO}	-50	V		
(Base open)	2SA1096A		-60			
Emitter-base voltage (Col	V _{EBO}	-5	V			
Collector current	I _C	-2	A			
Peak collector current	I _{CP}	-3	Α			
Collector power dissipation		P _C	1.2	W		
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			



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

Parameter	• • (Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Em	itter open)	V _{CBO}	$I_{C} = -1 \text{ mA}, I_{E} = 0$	-70			V
Collector-emitter voltage	2SA1096	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
(Base open)	2SA1096A		D. S. U.	-60			
Collector-base cutoff current (E	mitter open)	I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			-1	μΑ
Collector-emitter cutoff current	(Base open)	ICEO	$V_{CE} = -10 \text{ V}, I_B = 0$			-100	μΑ
Emitter-base cutoff current (Col	llector open)	I _{EBO}	$V_{EB} = -5 V, I_C = 0$			-10	μΑ
Forward current transfer rat	io *1,2	h _{FE}	$V_{CE} = -5 V, I_C = -1 A$	80		220	
Collector-emitter saturation	voltage	V _{CE(sat)}	$I_{\rm C} = -1.5 \text{ A}, I_{\rm B} = -0.15 \text{ A}$			-1	V
Base-emitter saturation volt	age	V _{BE(sat)}	$I_{\rm C} = -1.5 \text{ A}, I_{\rm B} = -0.15 \text{ A}$			-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	circuited)						

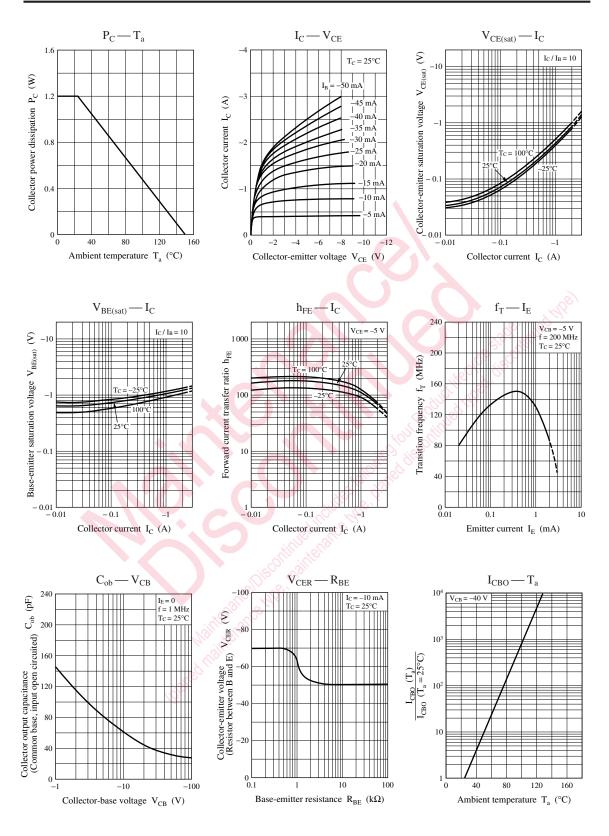
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

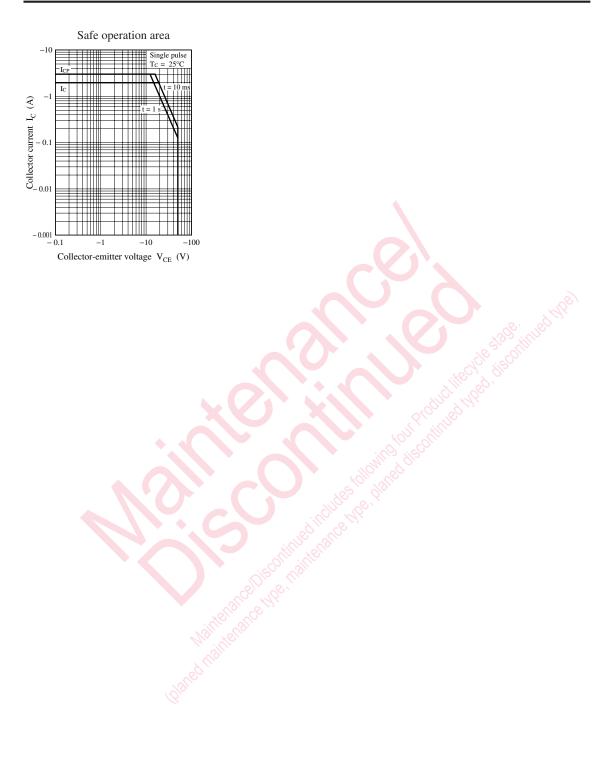
2. *1: Pulse measurement

*2: Rank classification

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

Panasonic





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