

2SA885

Silicon PNP Epitaxial Planar Type

AF Output Drivers

Complementary Pair with 2SC1846

■ Features

- 3W output in complementary pair with 2SC1398
- TO-126 package, no insulator needed when fixing to a heat sink

■ Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Value	Unit
Collector-base voltage	V_{CB0}	-45	V
Collector-emitter voltage	V_{CEO}	-35	V
Emitter-base voltage	V_{EB0}	-5	V
Peak collector current	I_{CP}	-1.5	A
Collector current	I_C	-1	A
Collector power dissipation	P_C	1.2 ^{*1}	W
		5 ^{*2}	
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

*1 Without heat sink

*2 With a 100×100×2mm Al heat sink

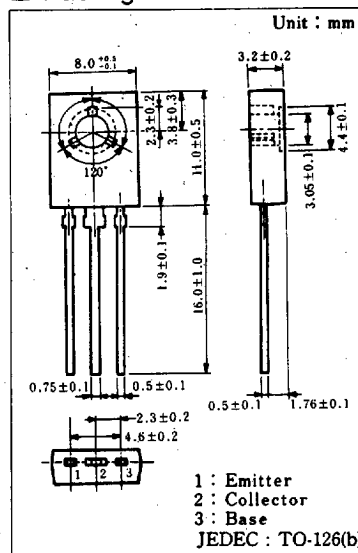
■ Electrical Characteristics (Tc=25°C)

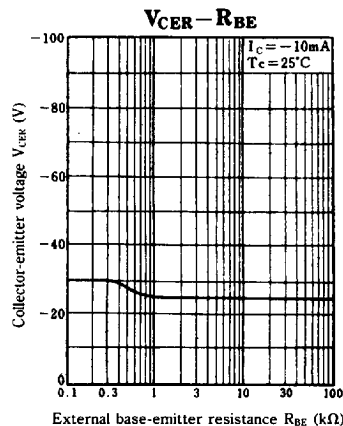
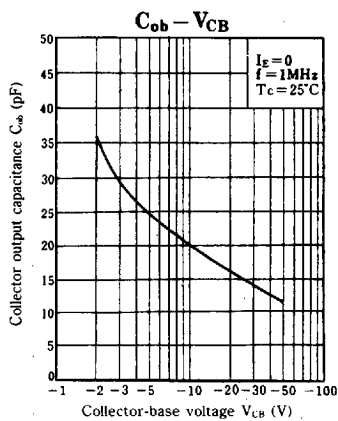
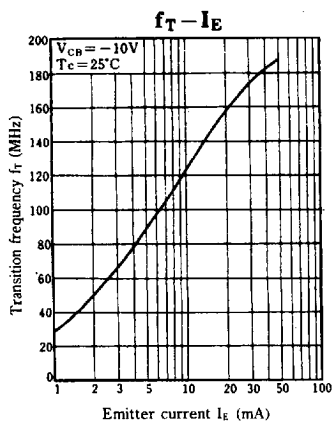
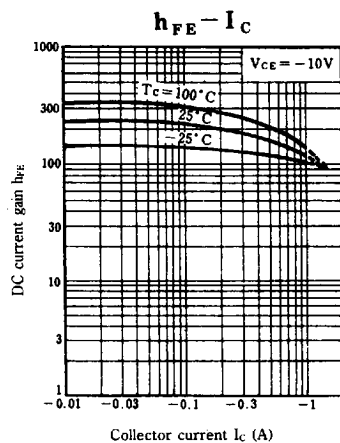
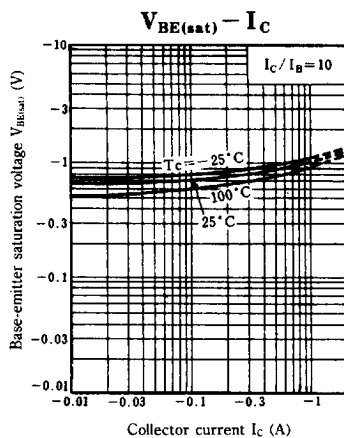
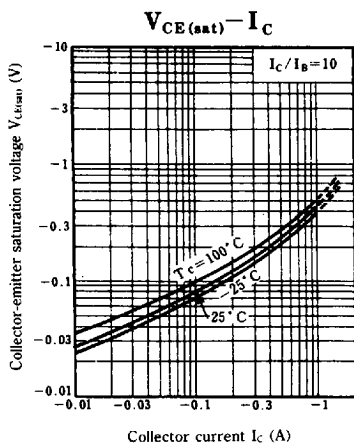
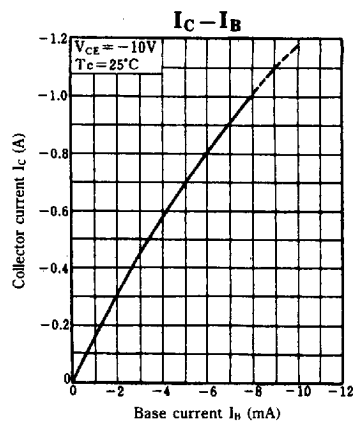
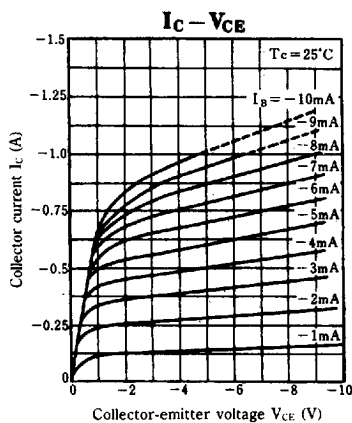
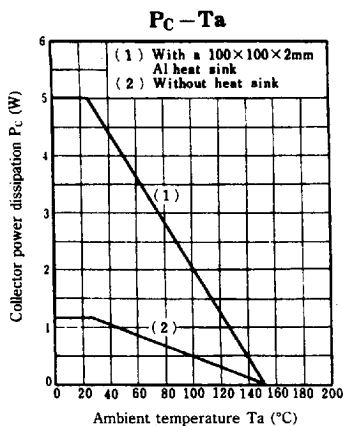
Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I_{CB0}	$V_{CB} = -20\text{ V}, I_E = 0$			-0.1	μA
	I_{CEO}	$V_{CE} = -20\text{ V}, I_B = 0$			-100	
Emitter cutoff current	I_{EB0}	$V_{EB} = -5\text{ V}, I_C = 0$			-10	μA
Collector-base voltage	V_{CB0}	$I_C = -10\text{ }\mu\text{A}, I_E = 0$	-45			V
Collector-emitter voltage	V_{CEO}	$I_C = -2\text{ mA}, I_B = 0$	-35			V
DC current gain	h_{FE1}^*	$V_{CE} = -10\text{ V}, I_C = -500\text{ mA}$	85		340	
	h_{FE2}	$V_{CE} = -5\text{ V}, I_C = -1\text{ A}$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500\text{ mA}, I_B = -50\text{ mA}$			-0.5	V
Transition frequency	f_T	$V_{CB} = -10\text{ V}, I_E = 50\text{ mA}, f = 200\text{ MHz}$		200		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{ V}, I_E = 0, f = 1\text{ MHz}$		20	30	pF

*h_{FE1} Classifications

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

■ Package Dimensions





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