

# 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	$V_{CE0}$	-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* <sup>1</sup>	W
		5* <sup>2</sup>	
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 ~ +150	°C

\*<sup>1</sup> Without heat sink\*<sup>2</sup> With a 100×100×2mm Al heat sink

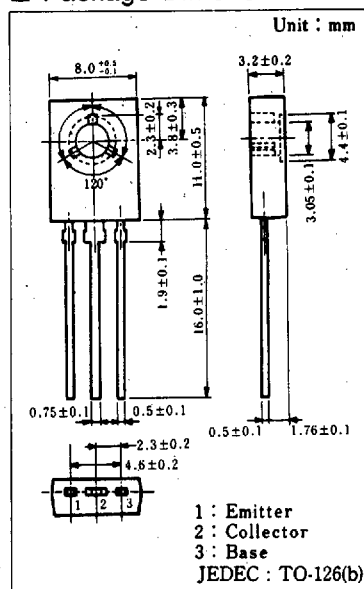
### ■ Electrical Characteristics (Tc=25°C)

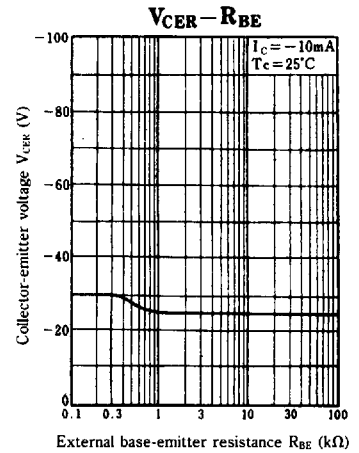
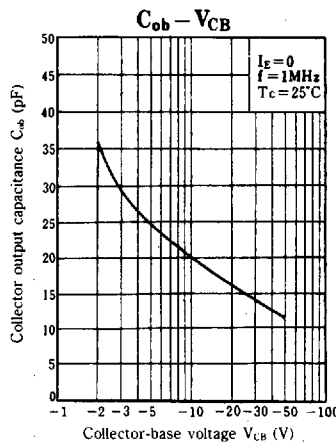
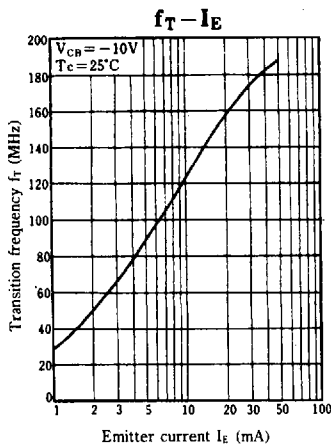
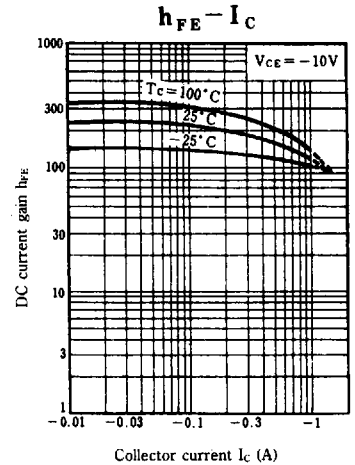
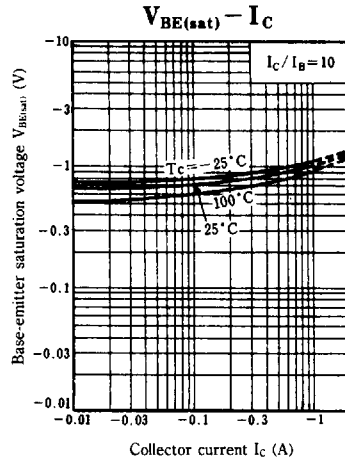
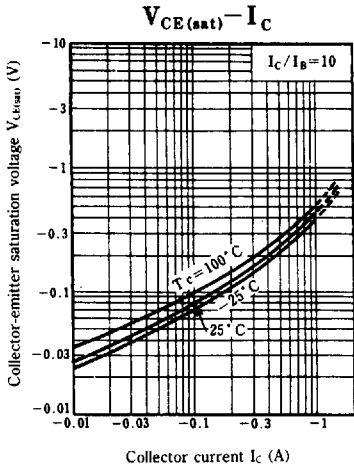
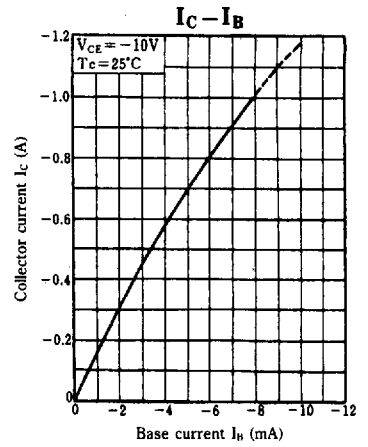
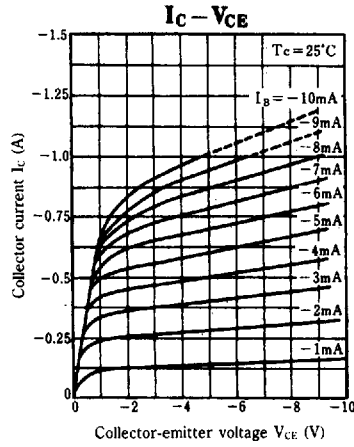
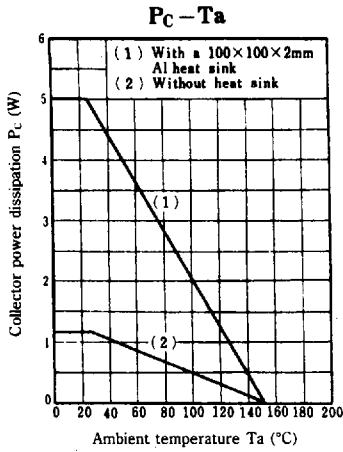
Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	$I_{CB0}$	$V_{CB} = -20\text{ V}, I_E = 0$			-0.1	$\mu\text{A}$
	$I_{CE0}$	$V_{CE} = -20\text{ V}, I_B = 0$			-100	
Emitter cutoff current	$I_{EB0}$	$V_{EB} = -5\text{ V}, I_C = 0$			-10	$\mu\text{A}$
Collector-base voltage	$V_{CB0}$	$I_C = -10\ \mu\text{A}, I_E = 0$	-45			V
Collector-emitter voltage	$V_{CE0}$	$I_C = -2\text{ mA}, I_B = 0$	-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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