

SANYO	No.4633	2SA1882/2SC4984
		PNP/NPN Epitaxial Planar Silicon Transistor
Low-Frequency General-Purpose Amp Applications		

Applications

- Low-frequency power amp applications.
- Medium-speed switching.
- Small-sized motor drivers.

Features

- Large current capacity.
- Low collector-to-emitter saturation voltage.

() : 2SA1882

Absolute Maximum Ratings at Ta = 25°C

			unit
Collector-to-Base Voltage	V _{CB0}	(-)15	V
Collector-to-Emitter Voltage	V _{CEO}	(-)15	V
Emitter-to-Base Voltage	V _{EBO}	(-)5	V
Collector Current	I _C	(-)1.5	A
Collector Current (Pulse)	I _{CP}	(-)3	A
Base Current	I _B	(-)300	mA
Collector Dissipation	P _C	1.3	W
Mounted on ceramic board (250mm ² × 0.8mm)			
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
Collector Cutoff Current	I _{CBO}	V _{CB} = (-)12V, I _E = 0			(-)100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} = (-)4V, I _C = 0			(-)100	nA
DC Current Gain	h _{FE} (1)	V _{CE} = (-)2V, I _C = (-)50mA	140*		560*	
	h _{FE} (2)	V _{CE} = (-)2V, I _C = (-)1A	70			
Gain-Bandwidth Product	f _T	V _{CE} = (-)2V, I _C = (-)50mA	(300)200			MHz
C-E Saturation Voltage	V _{CE(sat)} (1)	I _C = (-)5mA, I _B = (-)0.5mA	(-)10	(-)25		mV
	V _{CE(sat)} (2)	I _C = (-)500mA, I _B = (-)25mA	(-)120	(-)240		mV
B-E Saturation Voltage	V _{BE(sat)}	I _C = (-)500mA, I _B = (-)25mA	(-)0.9	(-)1.2		V
Output Capacitance	C _{ob}	V _{CB} = (-)10V, f = 1MHz	(15)10			pF
C-B Breakdown Voltage	V _{(BR)CBO}	I _C = (-)10μA, I _E = 0	(-)15			V
C-E Breakdown Voltage	V _{(BR)CEO}	I _C = (-)1mA, R _{BE} = ∞	(-)15			V
E-B Breakdown Voltage	V _{(BR)EBO}	I _E = (-)10μA, I _C = 0	(-)5			V

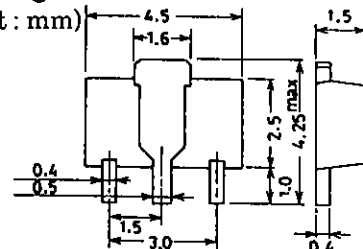
* The 2SA1882/2SC4984 is classified by 50mA h_{FE} as follows:

140 S 280	200 T 400	280 U 560
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Marking: 2SA1882 : AI
 : 2SC4984 : CT

Package Dimensions 2038A

(unit: mm)

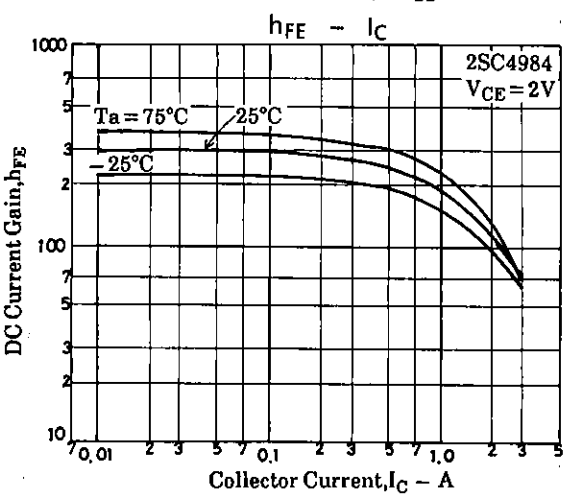
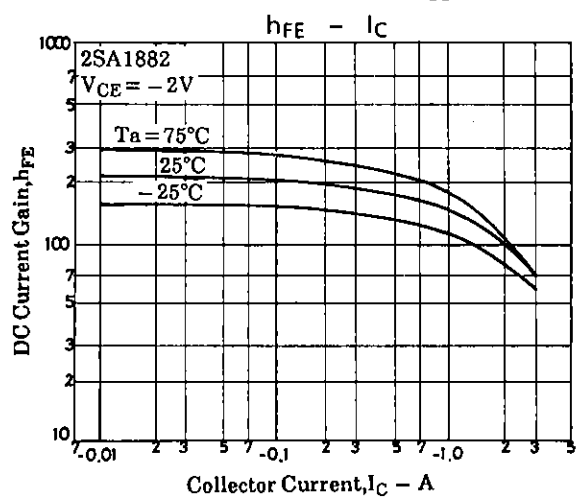
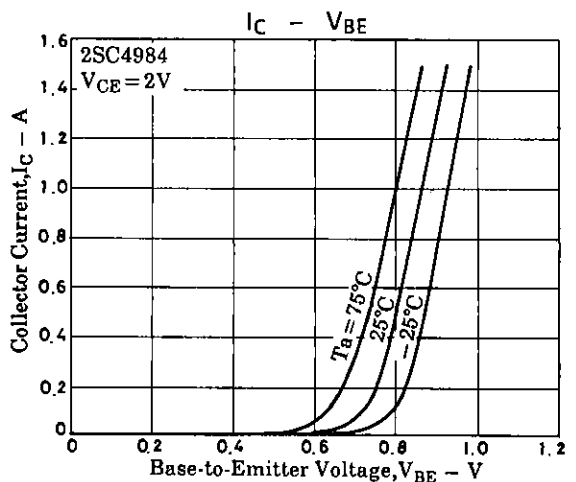
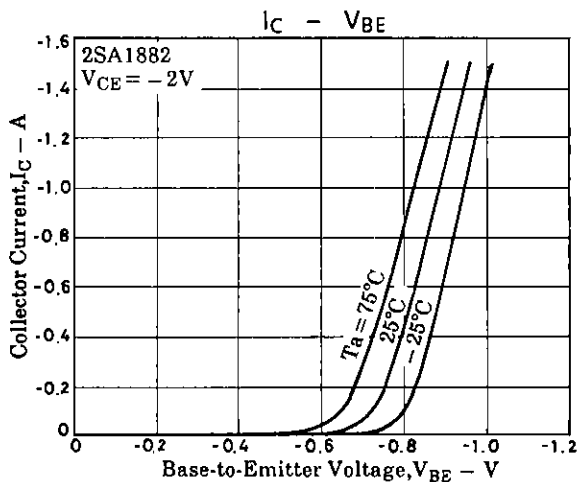
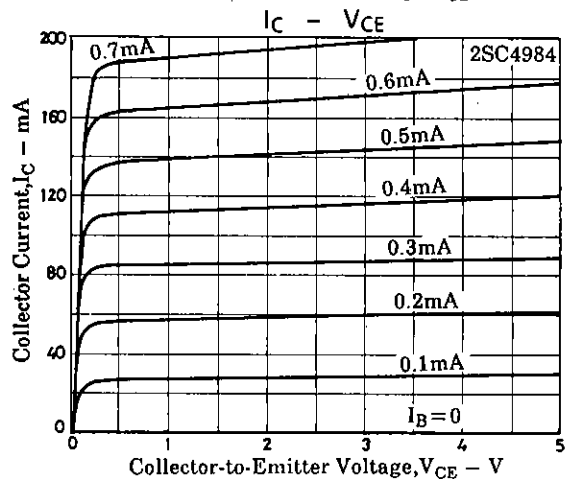
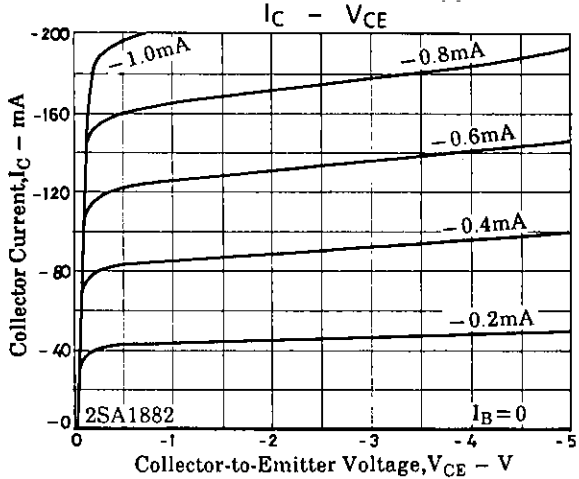
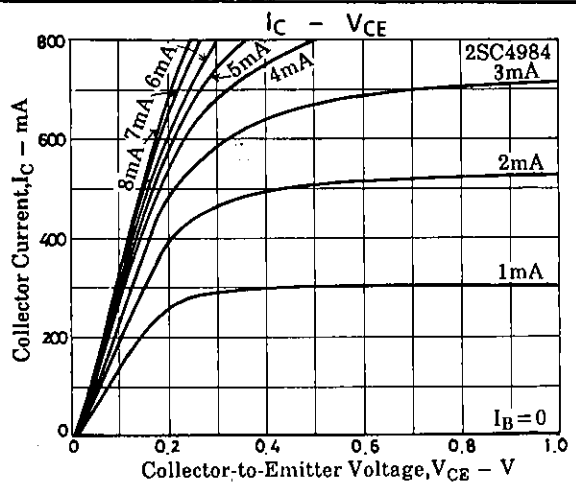
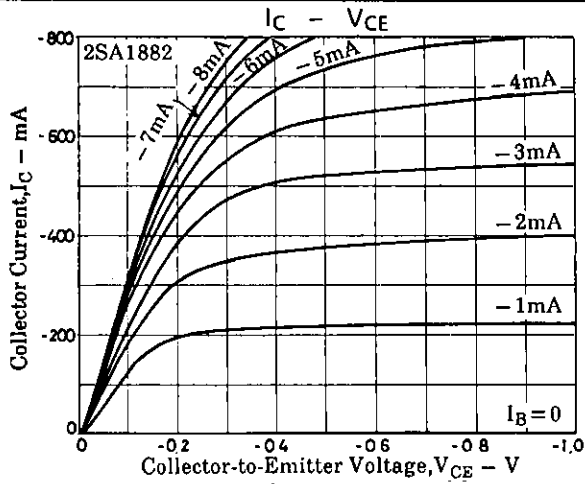


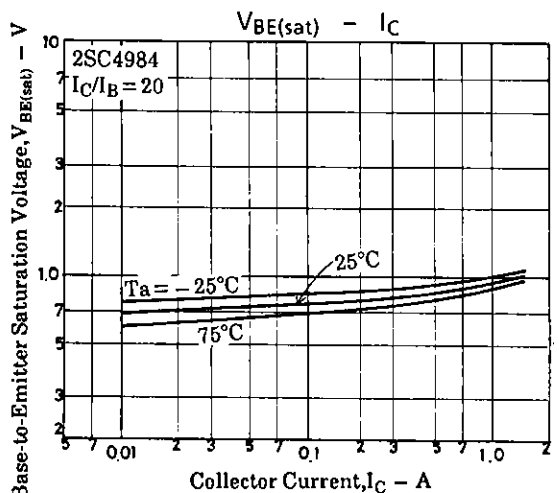
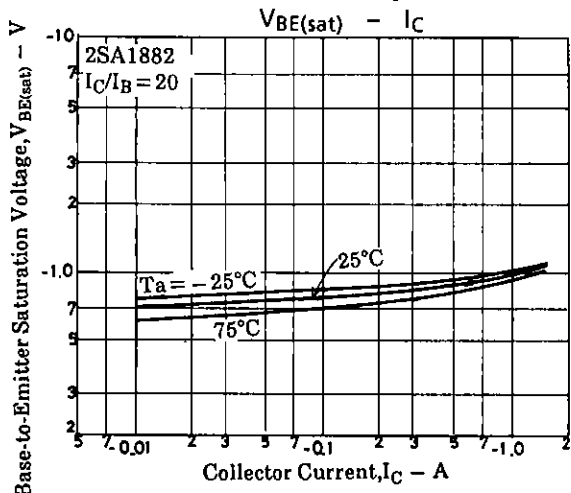
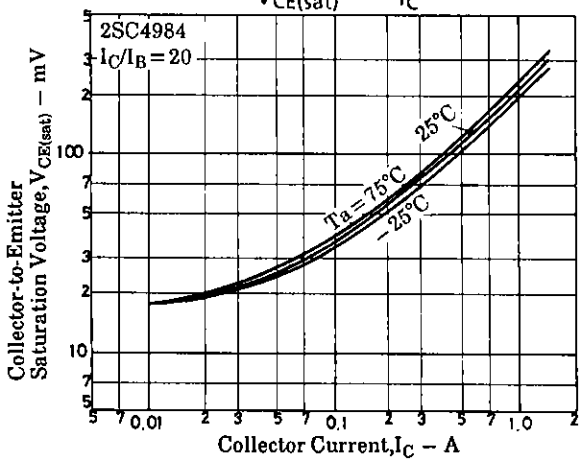
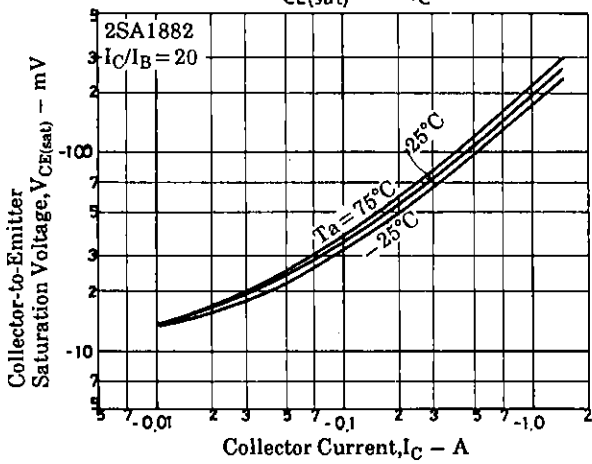
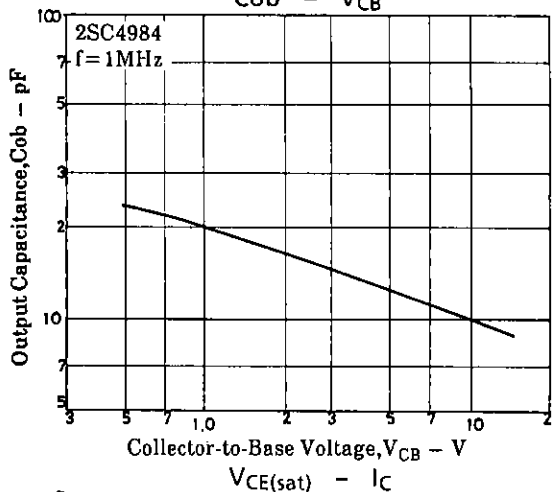
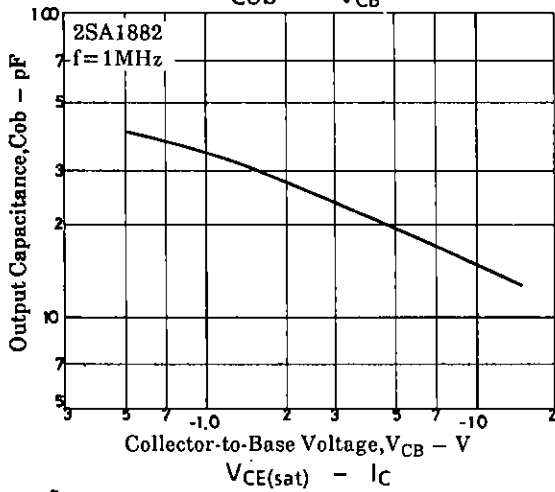
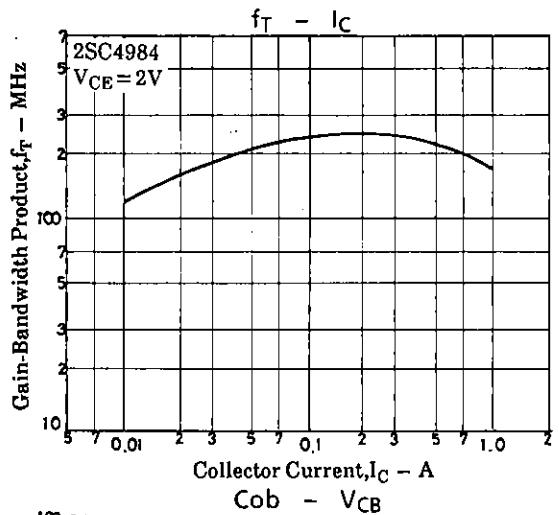
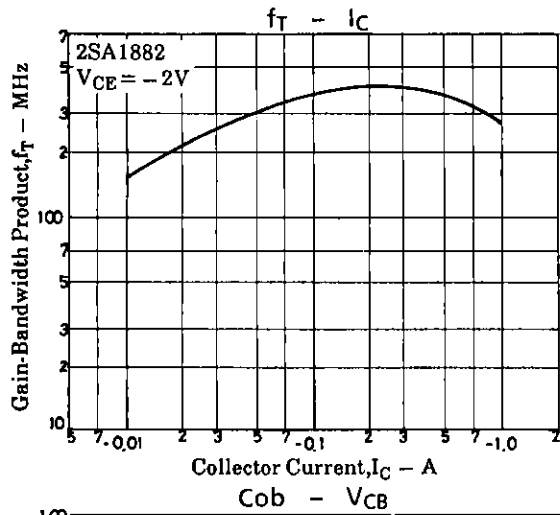
1: Base
 2: Collector
 3: Emitter
 SANYO: PCP
 (Bottom View)

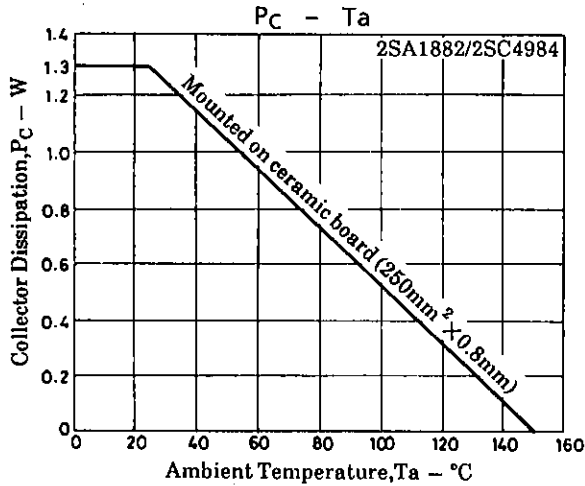
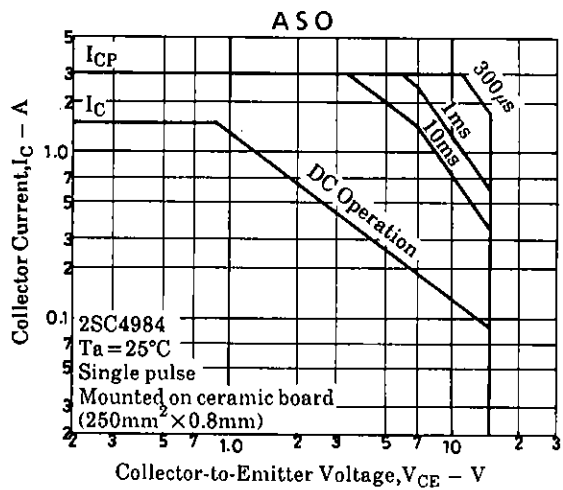
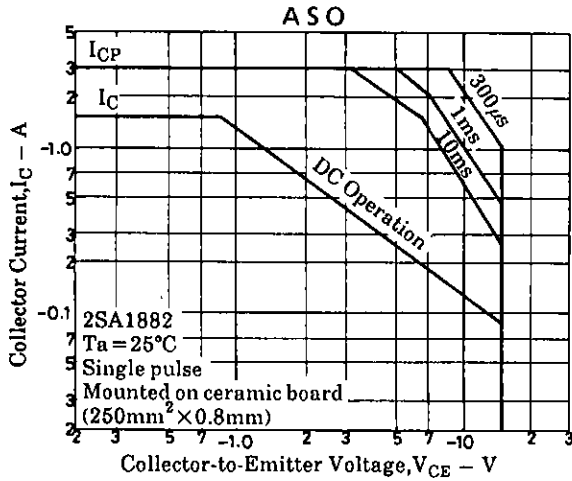
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2SA1882/2SC4984







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