

Low-Frequency General-Purpose Amp Applications

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

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

Collector-to-Base Voltage	V_{CBO}	(-)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

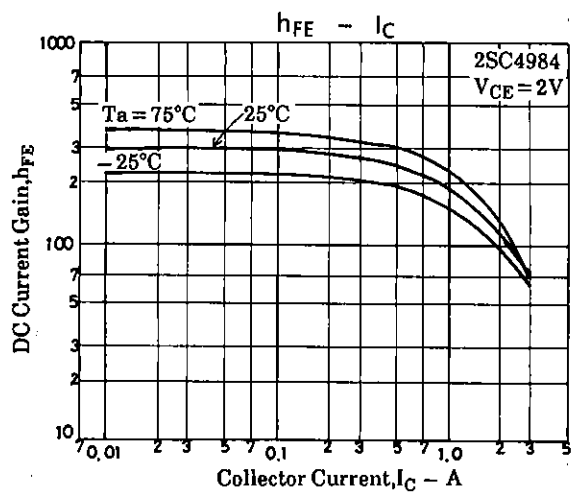
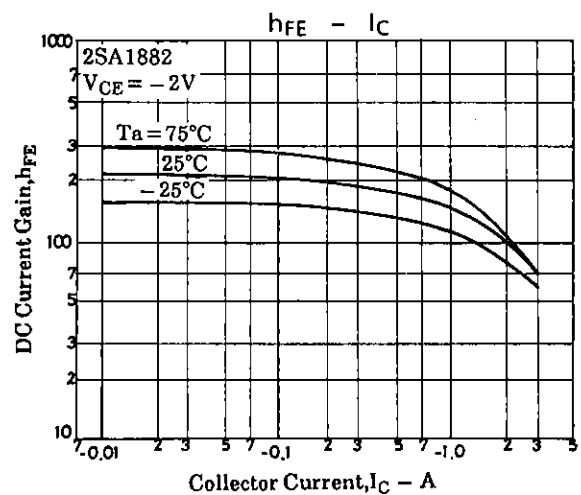
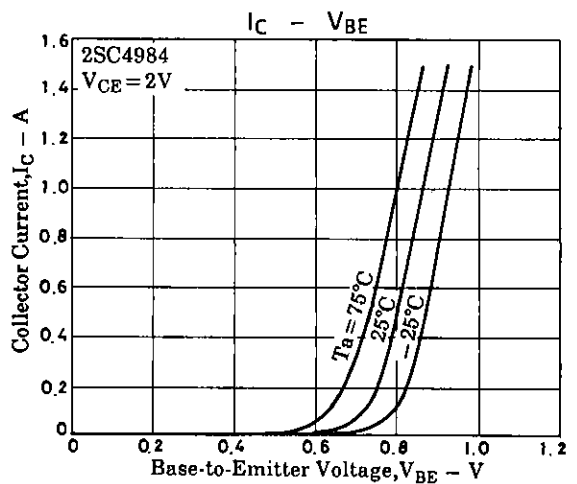
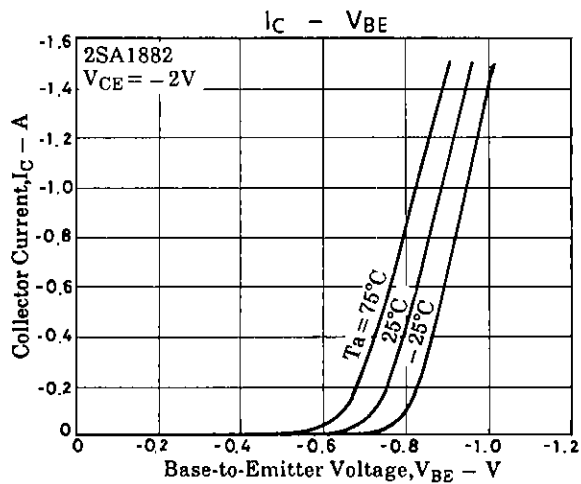
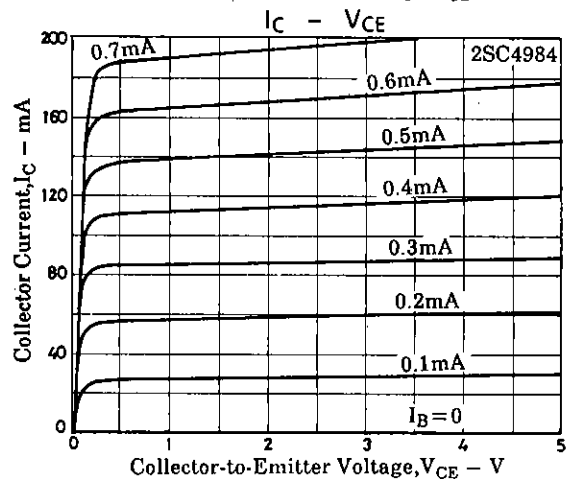
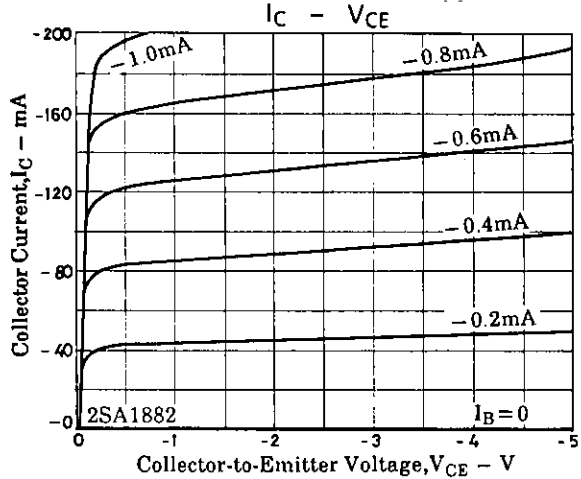
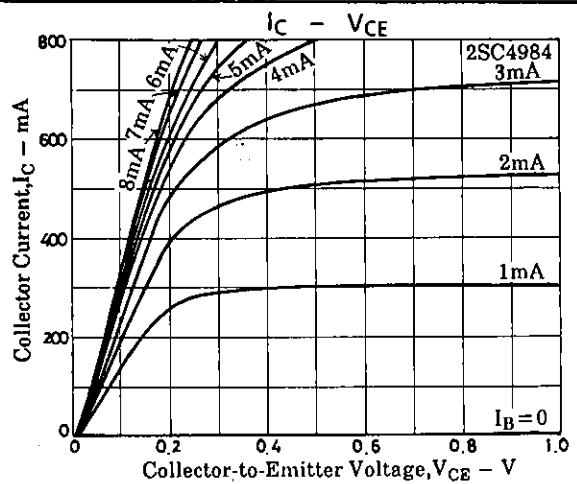
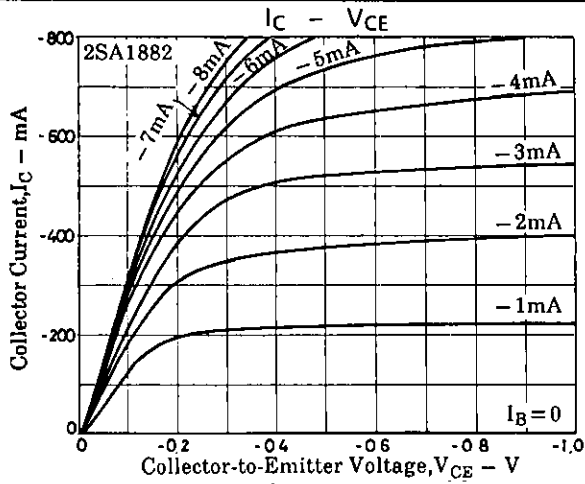
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)12V, I_E = 0$			(-)100	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)4V, I_C = 0$			(-)100	nA
DC Current Gain	$h_{FE}(1)$	$V_{CE} = (-)2V, I_C = (-)50mA$	140※		560※	
	$h_{FE}(2)$	$V_{CE} = (-)2V, I_C = (-)1A$	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	$V_{(BR)CBO}$	$I_C = (-)10\mu A, I_E = 0$	(-)15			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = (-)1mA, R_{BE} = \infty$	(-)15			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = (-)10\mu A, I_C = 0$	(-)5			V

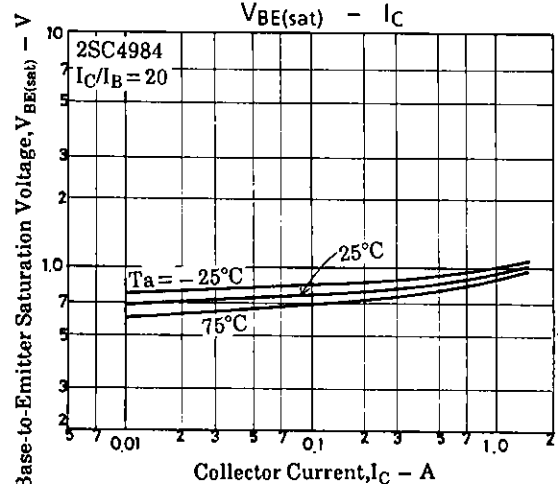
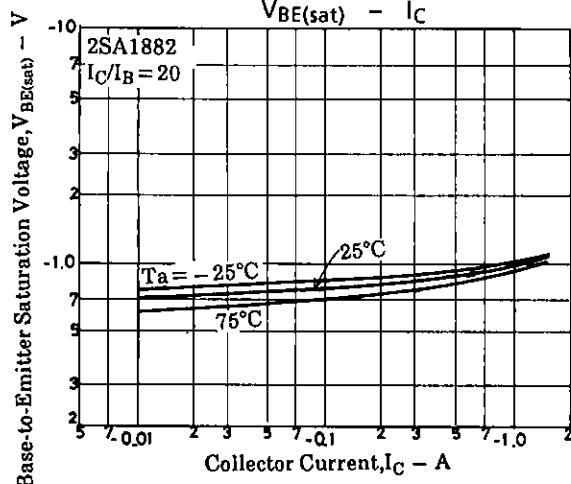
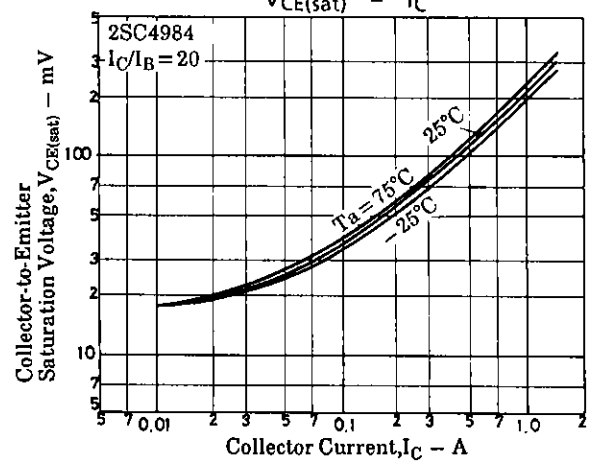
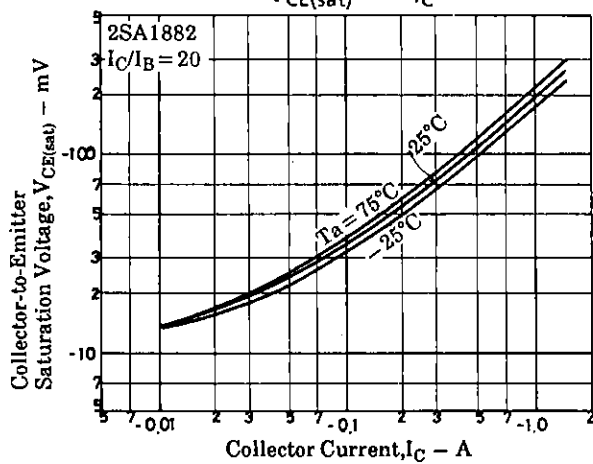
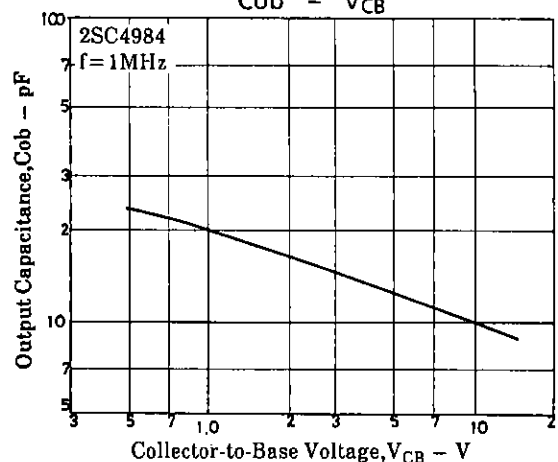
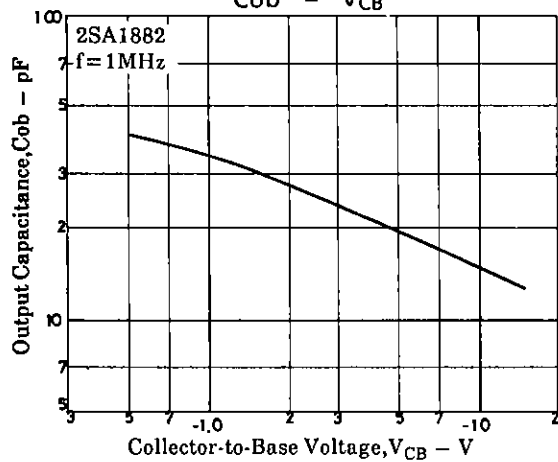
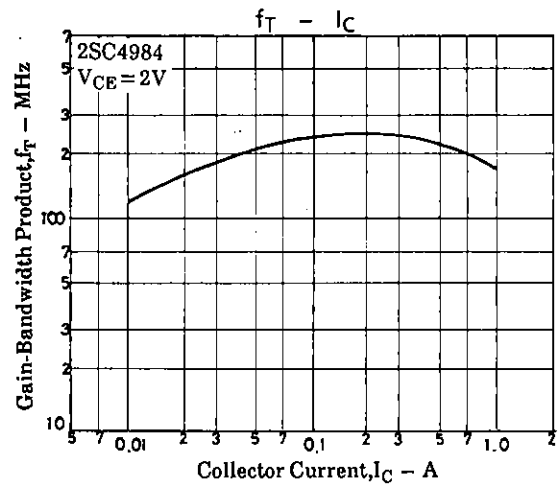
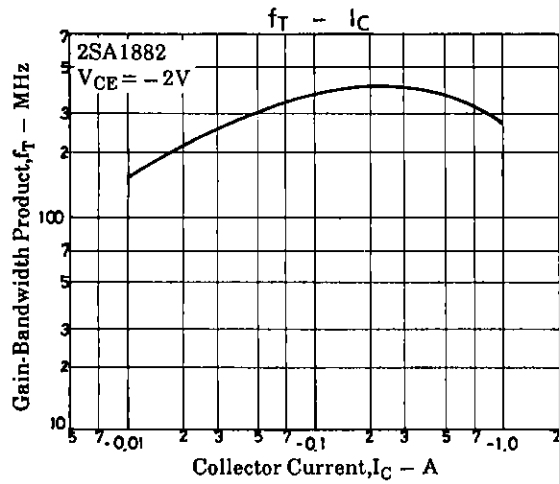
140 S 280	200 T 400	280 U 560
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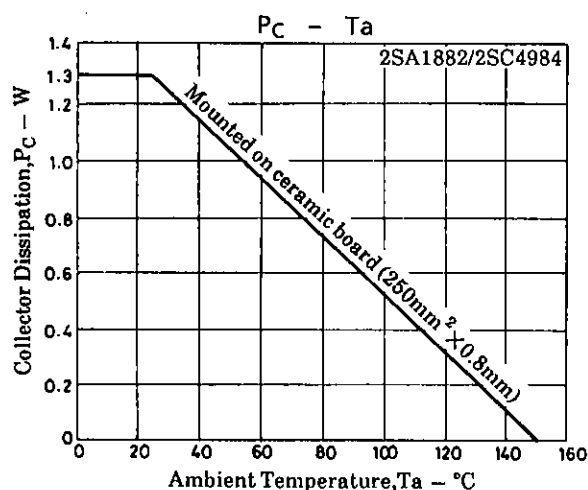
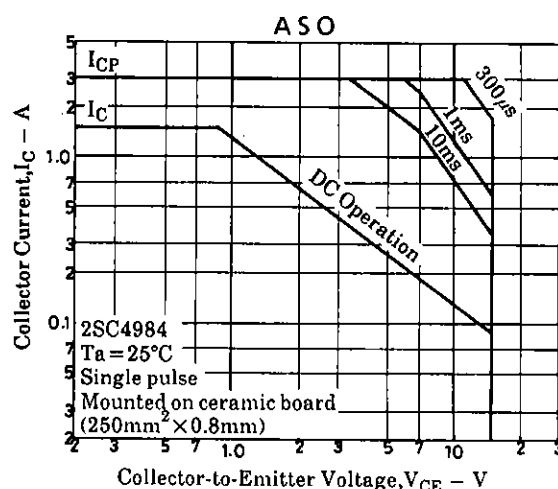
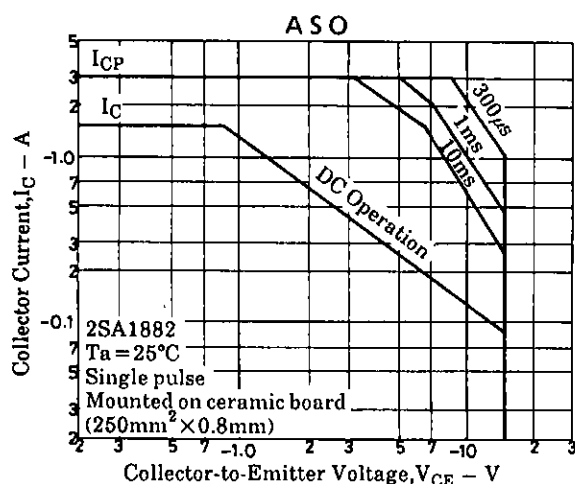
1: Ba
2: Co
3: En

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

51794TH (KOTO) BX-0238 No.4633-1/4







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