

SANYO	No.4661	2SA1881/2SC4983
		PNP/NPN Epitaxial Planar Silicon Transistors

**Low-Frequency
General-Purpose Amp Applications**

Applications

- AF power amp, medium-speed switching, small-sized motor drivers and LED drivers.

Features

- Large current capacity.
- Low collector to emitter saturation voltage.
- Very small-sized package permitting 2SA1881/2SC4983-applied sets to be made smaller and slimmer.

() : 2SA1881

Absolute Maximum Ratings at Ta = 25°C

			unit
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	A
Collector Current(Pulse)	I_{CP}	(-) 3	A
Base Current	I_B	(-) 200	mA
Collector Dissipation	P_C	250	mW
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	$h_{FE(1)}$	$V_{CE} = (-)2V, I_C = (-)50mA$	135^*		600^*	
	$h_{FE(2)}$	$V_{CE} = (-)2V, I_C = (-)800mA$	80			
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

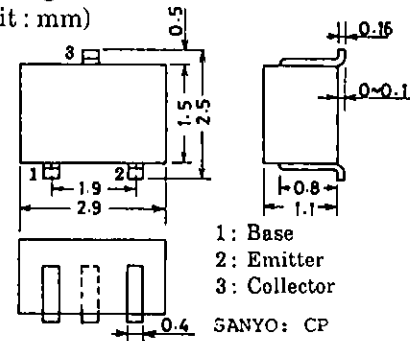
* : The 2SA1881/2SC4983 are classified by 50mA h_{FE} as follows:

135 5 270	200 6 400	300 7 600
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Marking : 2SA1881 : IS
2SC4983 : KN

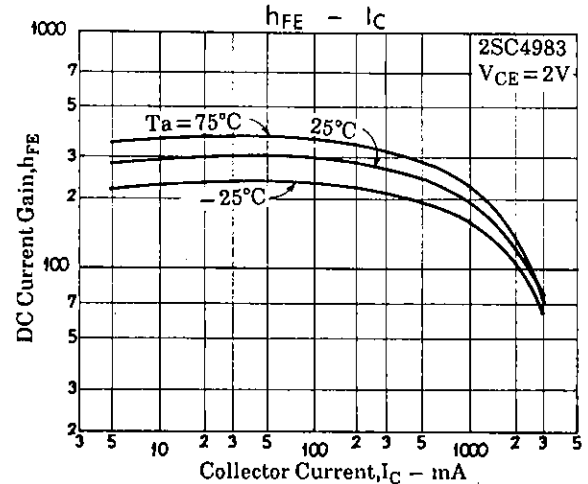
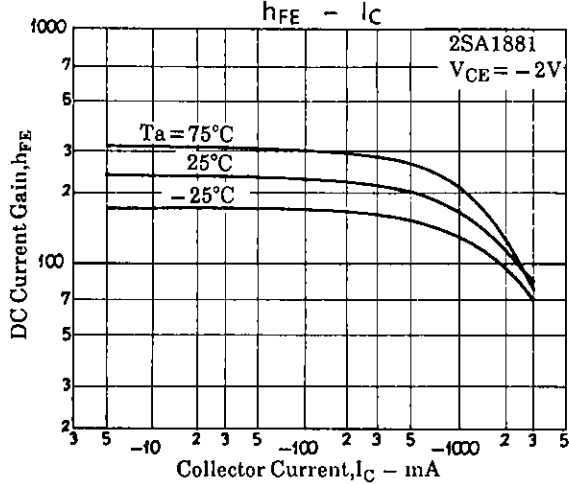
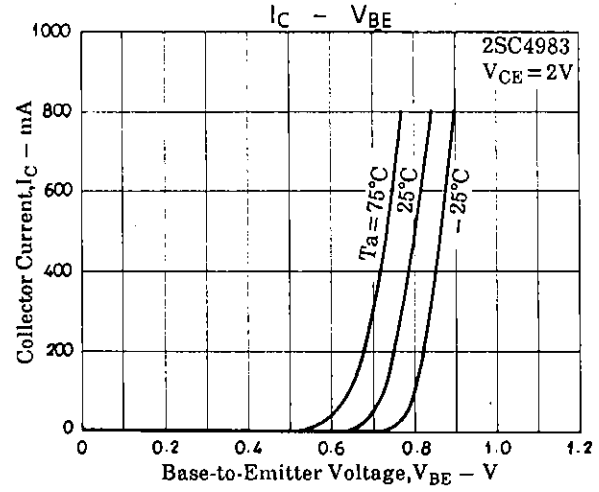
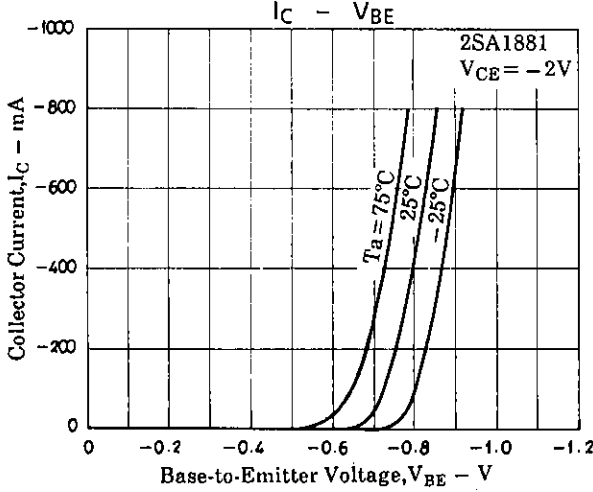
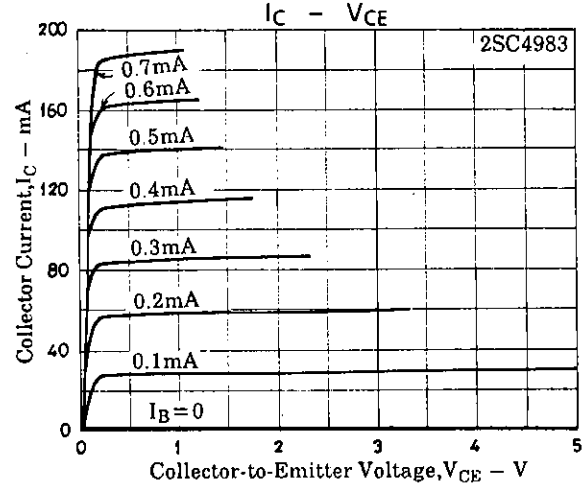
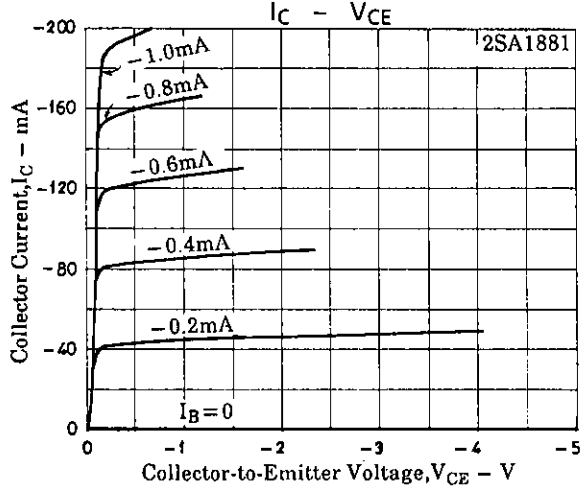
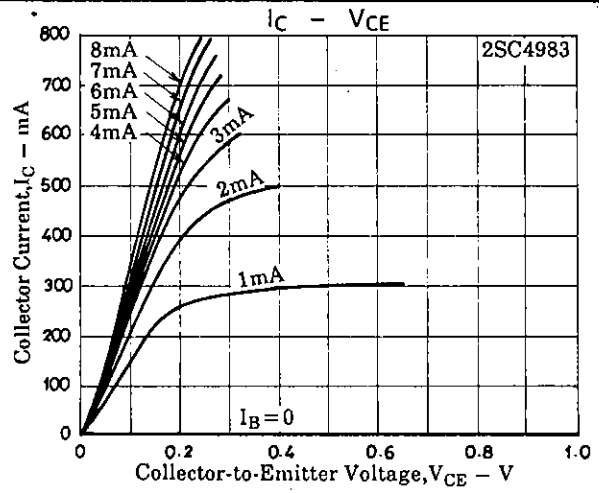
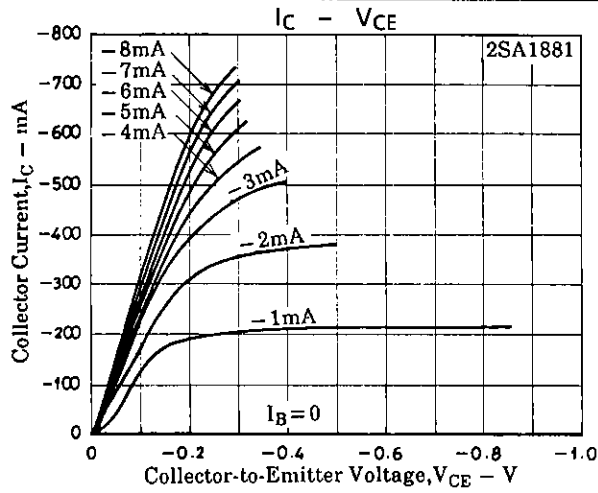
Package Dimensions 2018B

(unit : mm)

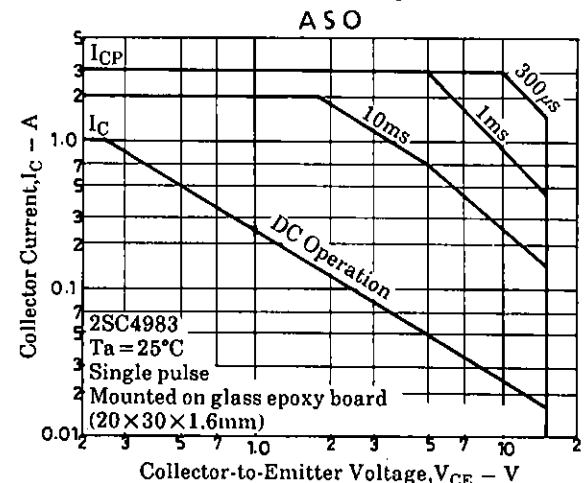
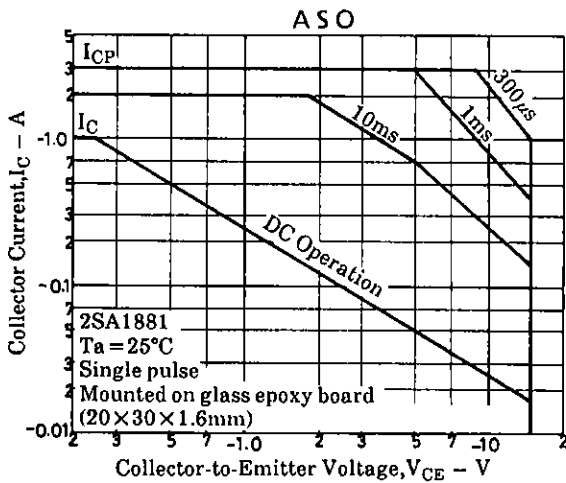
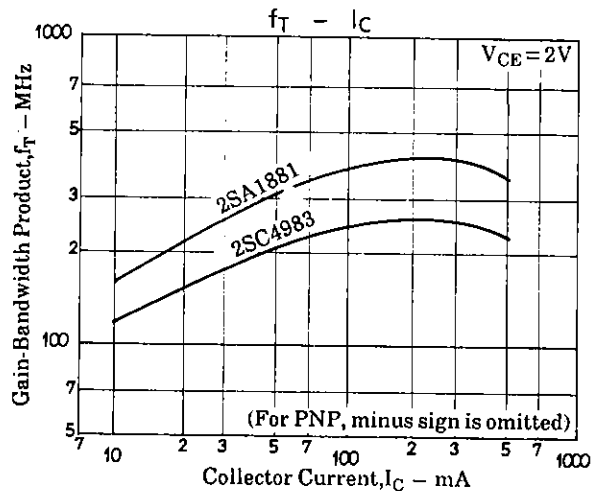
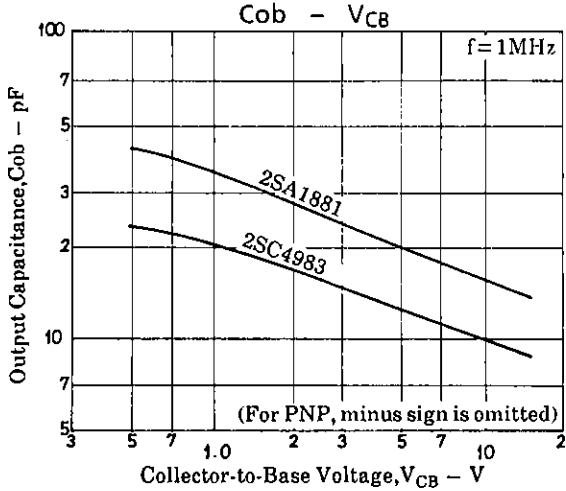
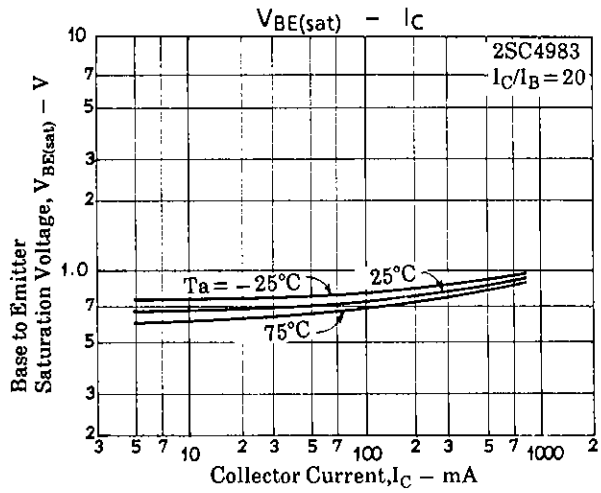
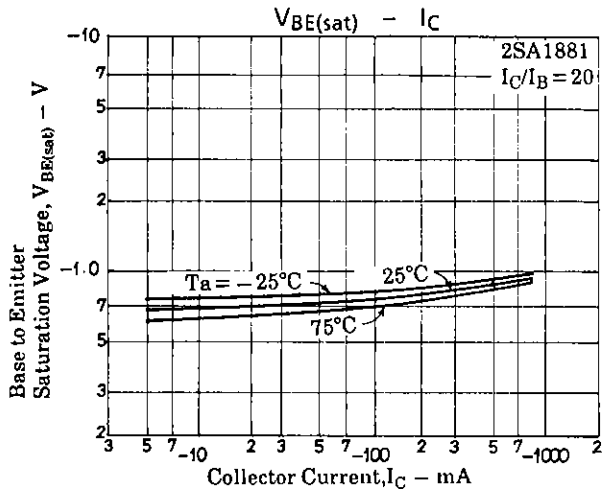
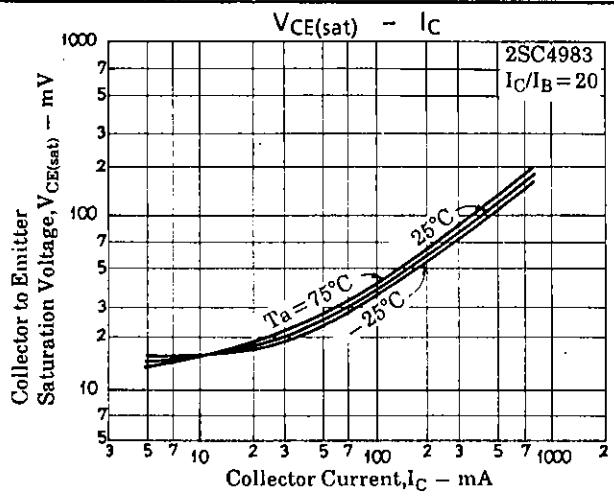
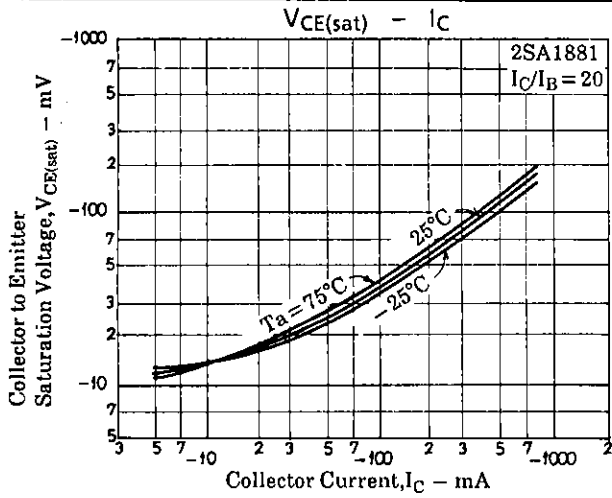


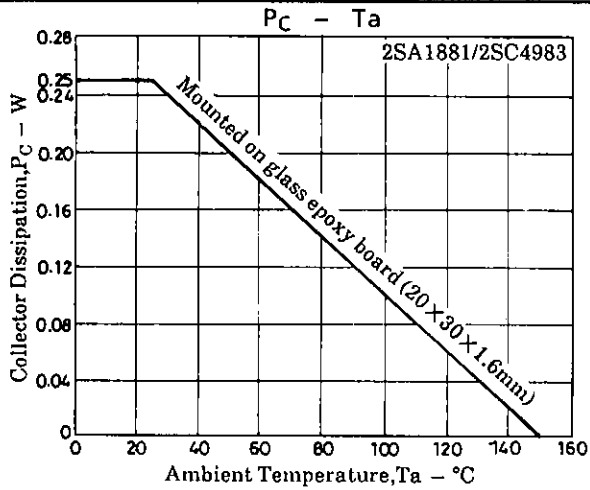
- 1: Base
- 2: Emitter
- 3: Collector

SANYO: CP



2SA1881/2SC4983





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