

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 = (-)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

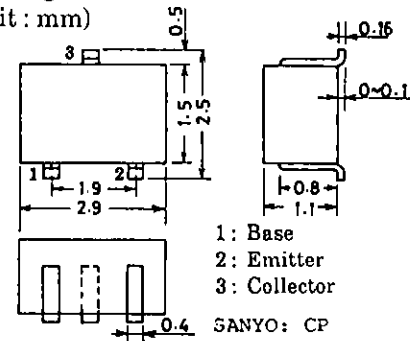
* : The 2SA1881/2SC4983 are classified by 50mA h_{FE} as follows:

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

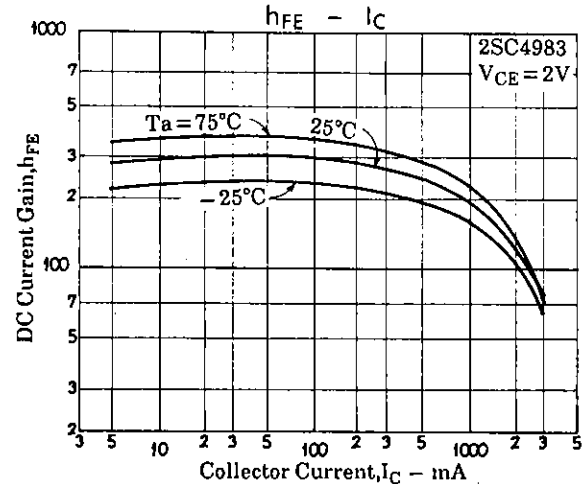
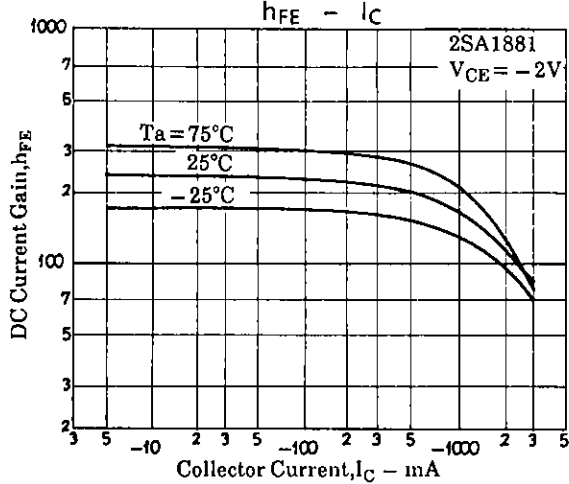
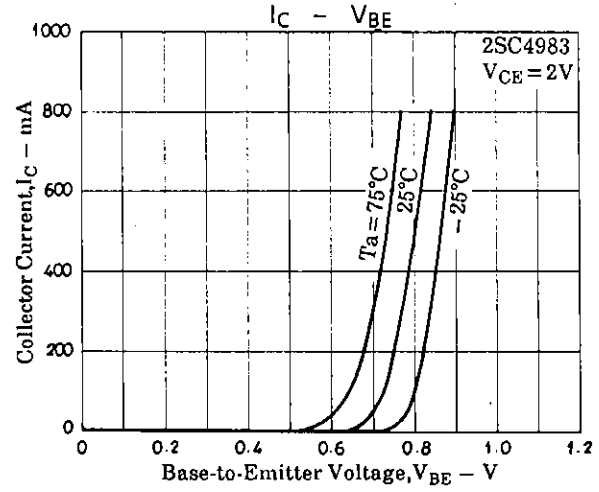
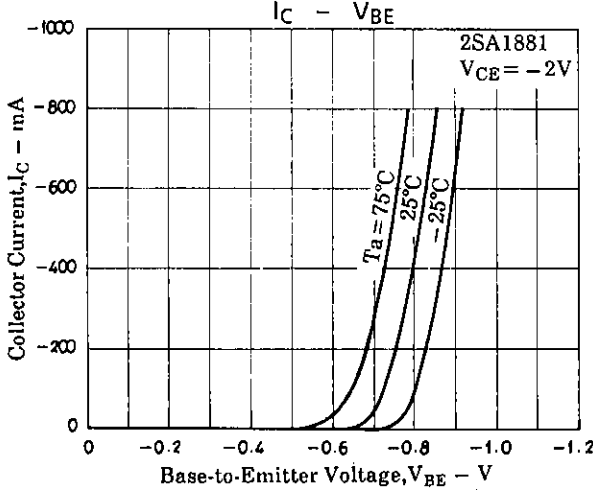
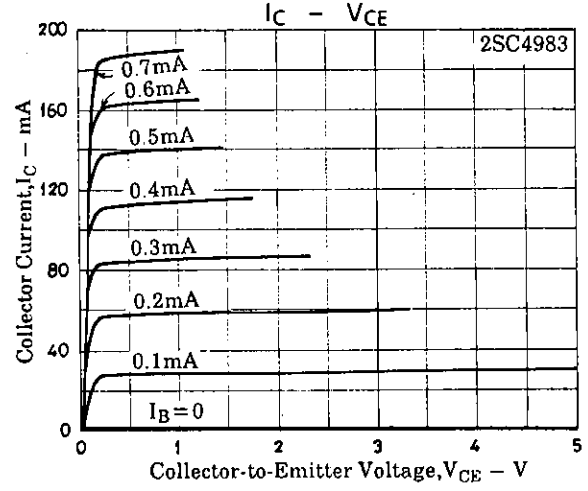
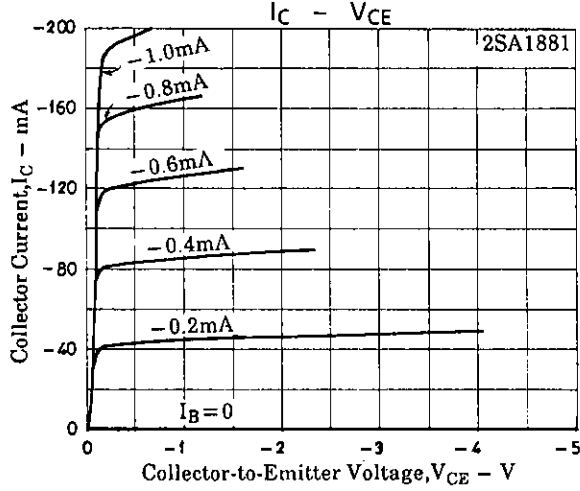
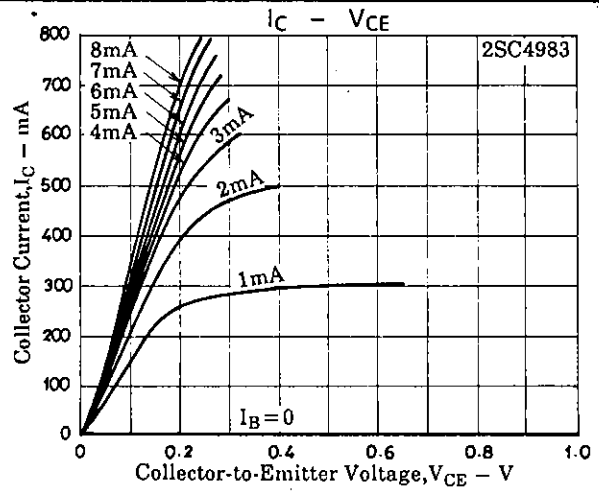
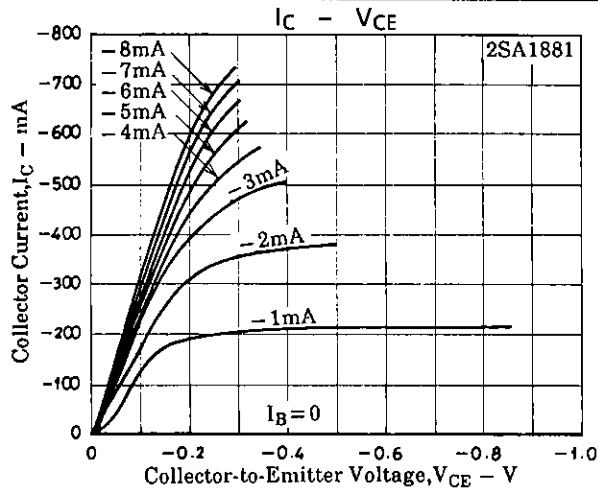
Package Dimensions 2018B

(unit : mm)

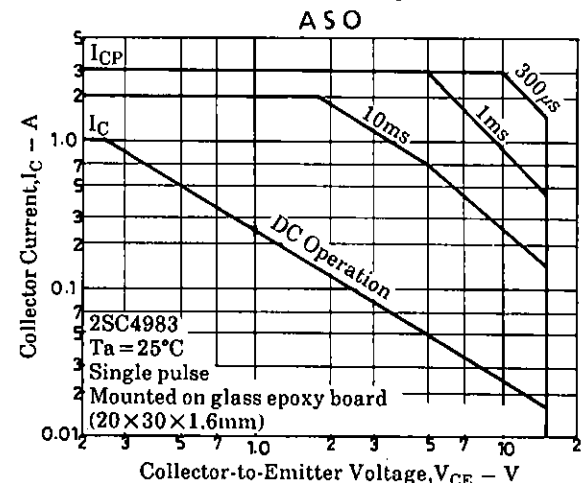
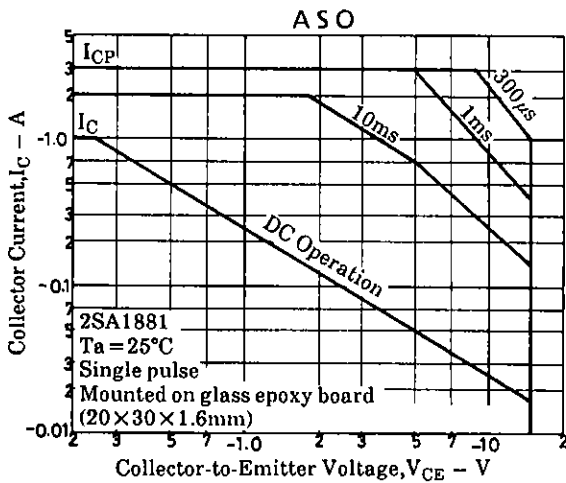
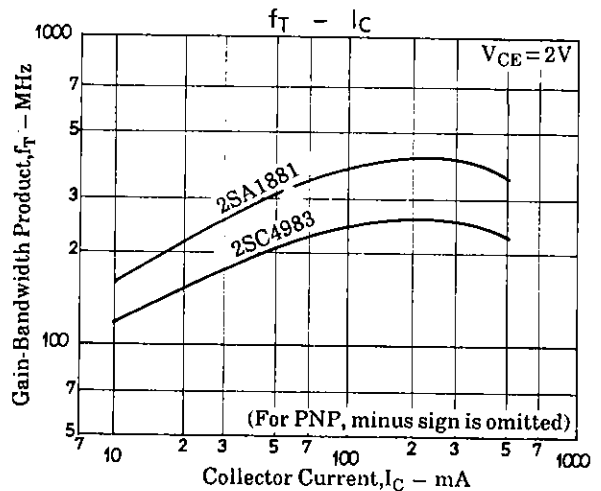
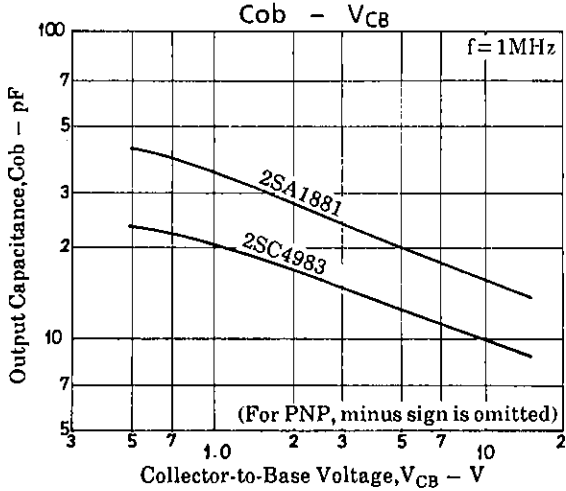
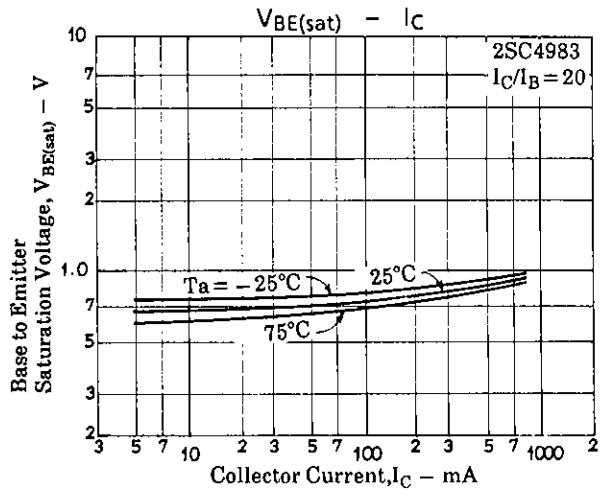
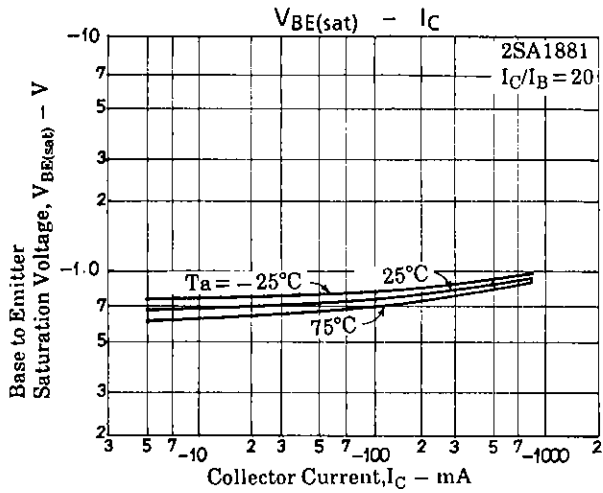
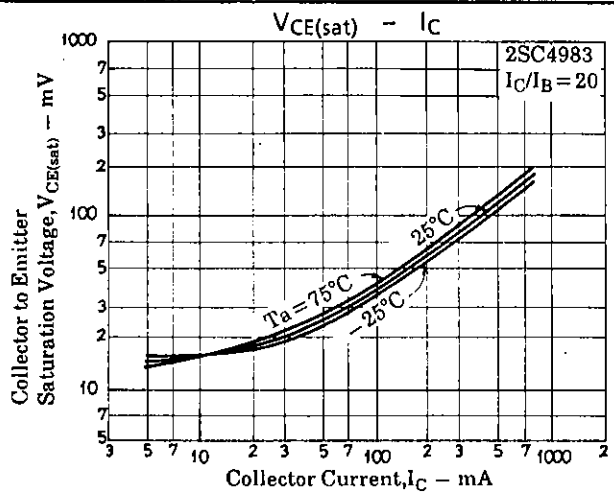
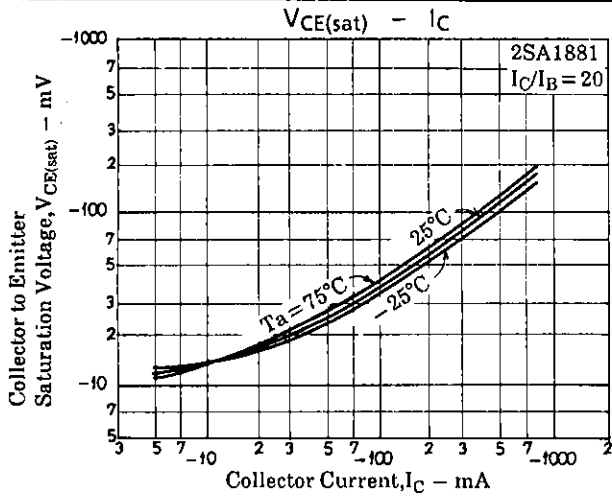


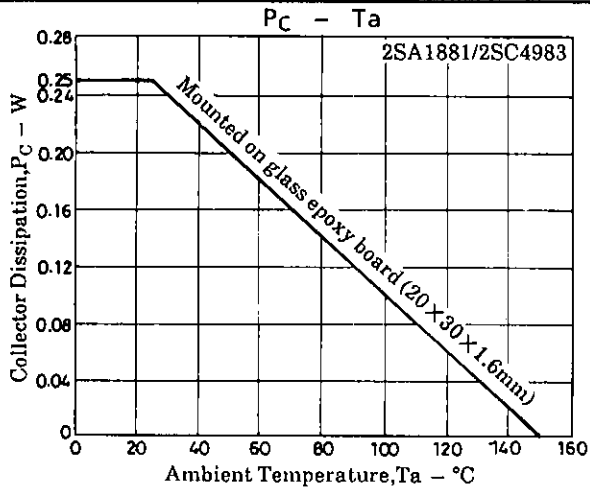
- 1: Base
- 2: Emitter
- 3: Collector

SANYO: CP



2SA1881/2SC4983





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