

<b>SANYO</b>	No.4661	<b>2SA1881/2SC4983</b>
		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 <sub>CBO</sub>	(-) $15$	V
Collector-to-Emitter Voltage	V <sub>CEO</sub>	(-) $15$	V
Emitter-to-Base Voltage	V <sub>EBO</sub>	(-) $5$	V
Collector Current	I <sub>C</sub>	(-) $1$	A
Collector Current(Pulse)	I <sub>CP</sub>	(-) $3$	A
Base Current	I <sub>B</sub>	(-) $200$	mA
Collector Dissipation	P <sub>C</sub>	$250$	mW
Junction Temperature	T <sub>j</sub>	$150$	°C
Storage Temperature	T <sub>stg</sub>	$-55$ to $+150$	°C

**Electrical Characteristics at Ta = 25°C**

			min	typ	max	unit
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> = (-) $12$ V, I <sub>E</sub> = 0			(-) $100$	nA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> = (-) $4$ V, I <sub>C</sub> = 0			(-) $100$	nA
DC Current Gain	h <sub>FE</sub> (1)	V <sub>CE</sub> = (-) $2$ V, I <sub>C</sub> = (-) $50$ mA	135*		600*	
	h <sub>FE</sub> (2)	V <sub>CE</sub> = (-) $2$ V, I <sub>C</sub> = (-) $800$ mA	80			
Gain-Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> = (-) $2$ V, I <sub>C</sub> = (-) $50$ mA		(300)200		MHz
C-E Saturation Voltage	V <sub>CE(sat)</sub> (1)	I <sub>C</sub> = (-) $5$ mA, I <sub>B</sub> = (-) $0.5$ mA		(-) $10$	(-) $25$	mV
	V <sub>CE(sat)</sub> (2)	I <sub>C</sub> = (-) $500$ mA, I <sub>B</sub> = (-) $25$ mA		(-) $120$	(-) $240$	mV
B-E Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> = (-) $500$ mA, I <sub>B</sub> = (-) $25$ mA		(-) $0.9$	(-) $1.2$	V
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = (-) $10$ V, f = 1MHz		(15)10		pF
C-B Breakdown Voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = (-) $10$ μA, I <sub>E</sub> = 0	(-) $15$			V
C-E Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = (-) $1$ mA, R <sub>BE</sub> = ∞	(-) $15$			V
E-B Breakdown Voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = (-) $10$ μA, I <sub>C</sub> = 0	(-) $5$			V

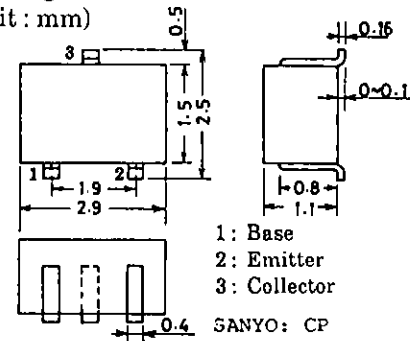
\* : The 2SA1881/2SC4983 are classified by 50mA h<sub>FE</sub> as follows:

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

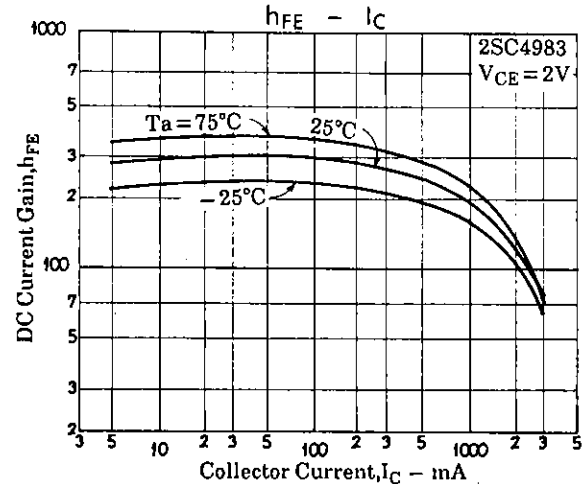
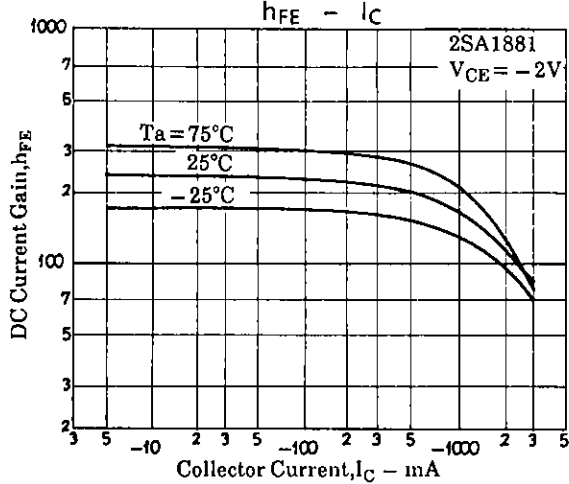
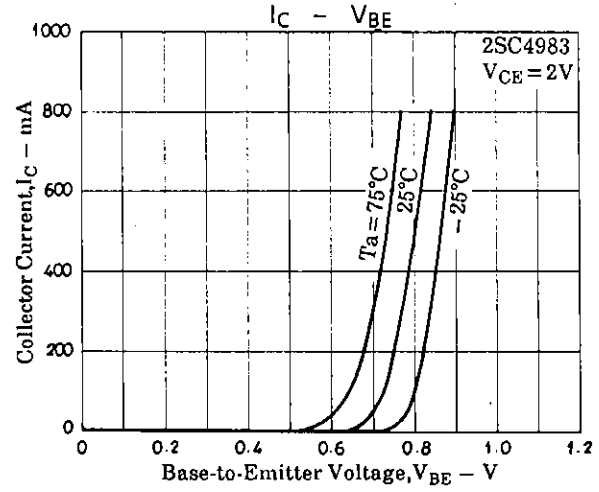
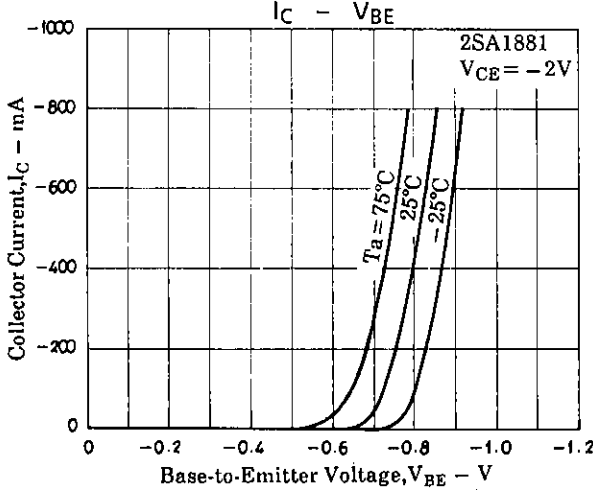
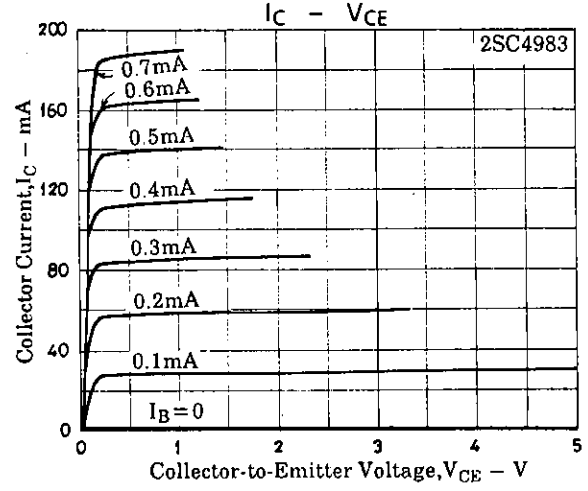
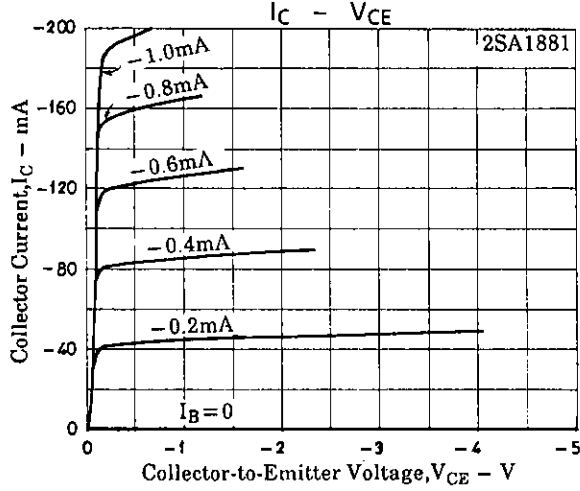
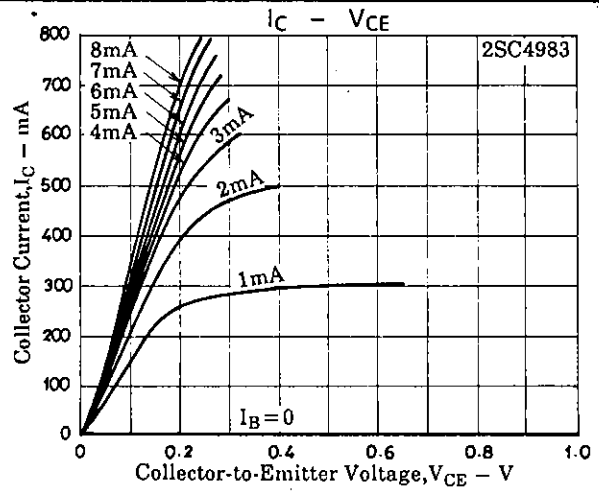
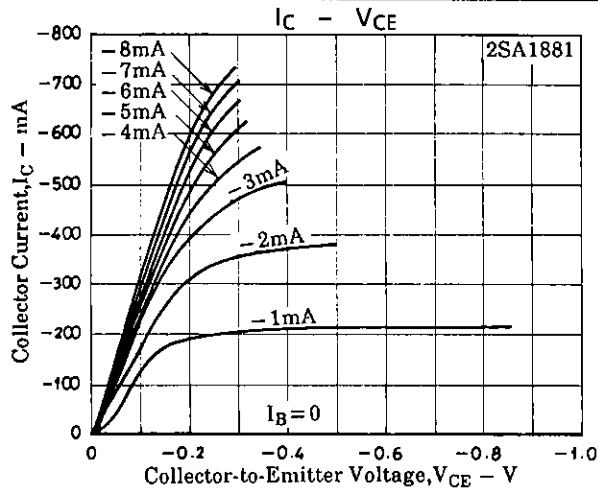
**Package Dimensions 2018B**

(unit : mm)

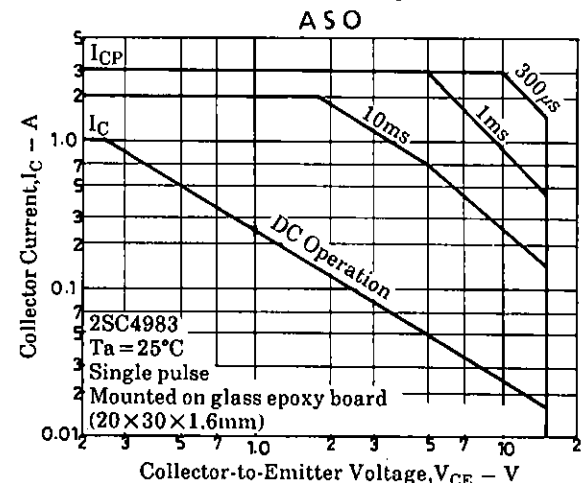
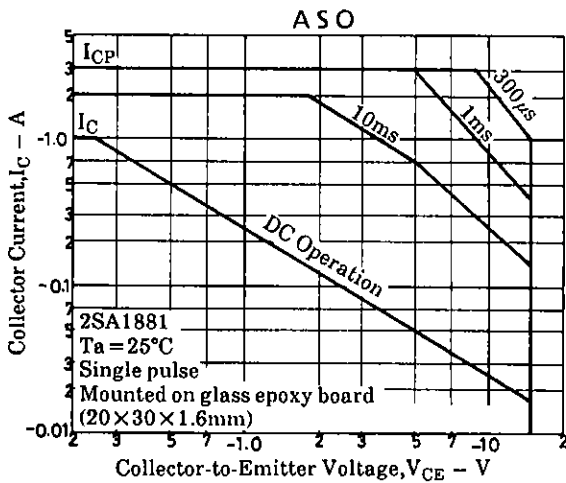
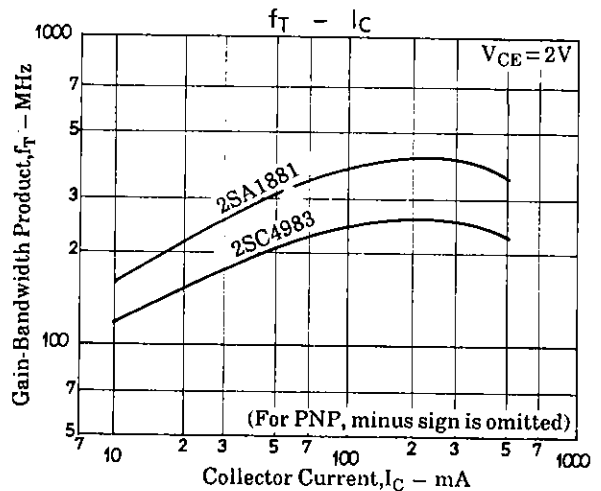
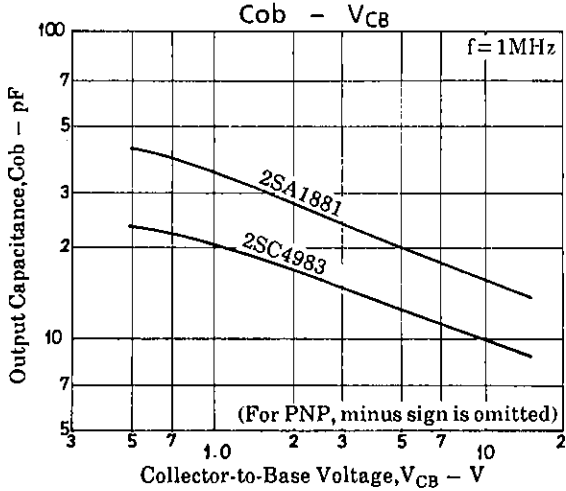
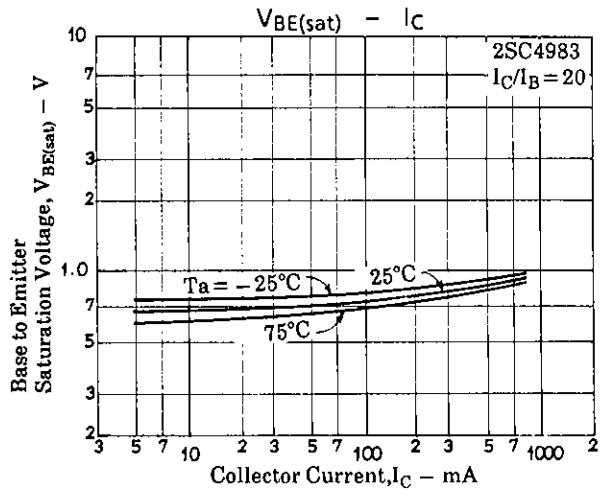
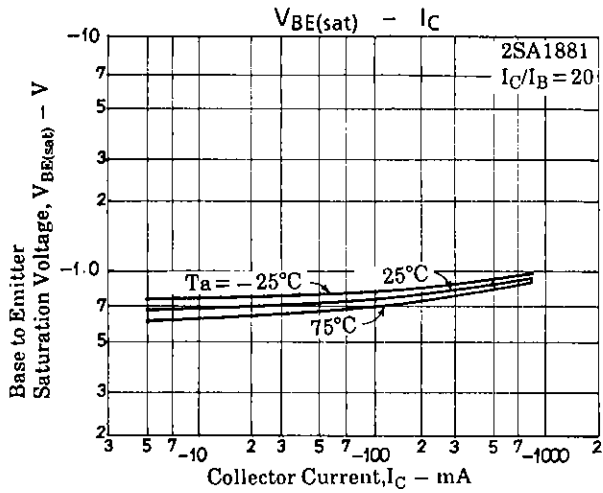
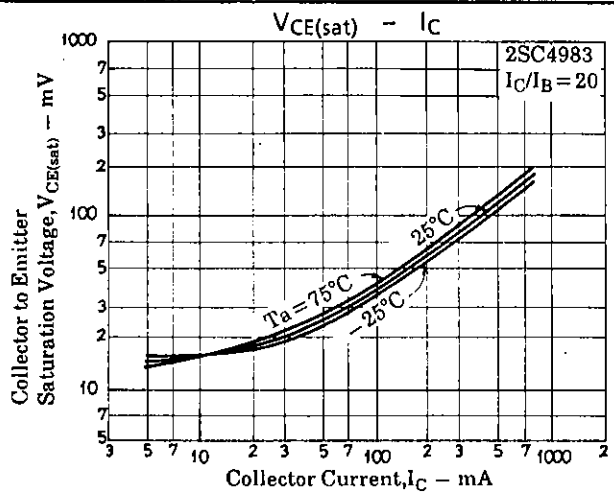
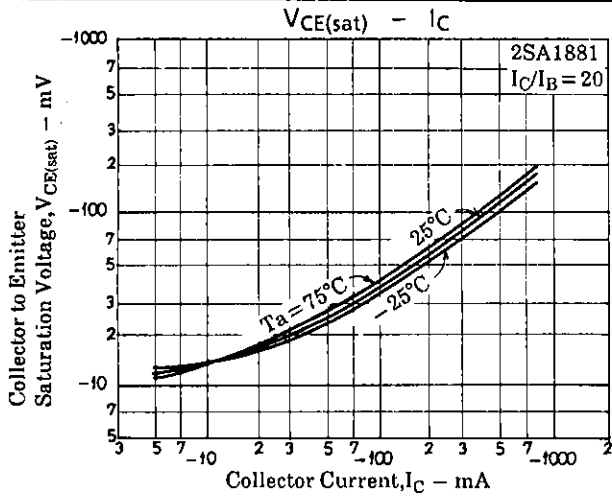


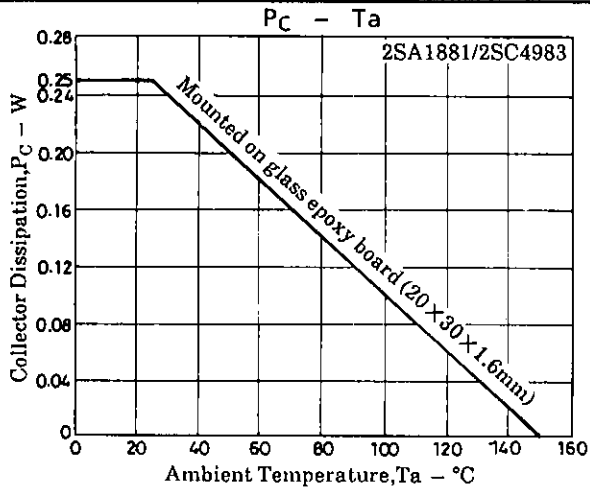
- 1: Base
- 2: Emitter
- 3: Collector

SANYO: CP



2SA1881/2SC4983





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