

SANYO	No.4718A	2SA1896
		PNP Epitaxial Planar Silicon Transistor DC/DC Converter, Motor Driver Applications

Features

- Adoption of FBET and MBIT processes.
- Large current capacity.
- Low collector-to-emitter saturation voltage.
- Small size making it easy to provide high-density, small-sized hybrid ICs.

Absolute Maximum Ratings at Ta = 25°C

			unit
Collector-to-Base Voltage	V _{CB0}	-25	V
Collector-to-Emitter Voltage	V _{CEO}	-20	V
Emitter-to-Base Voltage	V _{EBO}	-7	V
Collector Current	I _C	-2.5	A
Collector Current (Pulse)	I _{CP}	-5	A
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} = -20V, I _E = 0			-100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} = -6V, I _C = 0			-100	nA
DC Current Gain	h _{FE} (1)	V _{CE} = -2V, I _C = -0.5A	140*		400*	
	h _{FE} (2)	V _{CE} = -2V, I _C = -2.5A	70			
Gain-Bandwidth Product	f _T	V _{CE} = -2V, I _C = -0.3A		400		MHz
Output Capacitance	C _{ob}	V _{CB} = -10V, f = 1MHz		26		pF
C-E Saturation Voltage	V _{CE(sat)}	I _C = -1.5A, I _B = -30mA	-220		-400	mV
B-E Saturation Voltage	V _{BE(sat)}	I _C = -1.5A, I _B = -30mA	-0.9		-1.2	V
C-B Breakdown Voltage	V _{(BR)CBO}	I _C = -10μA, I _E = 0	-25			V
C-E Breakdown Voltage	V _{(BR)CEO}	I _C = -1mA, R _{BE} = ∞	-20			V
E-B Breakdown Voltage	V _{(BR)EBO}	I _E = -10μA, I _C = 0	-7			V

* The 2SA1896 is classified by 0.5A h_{FE} as follows:

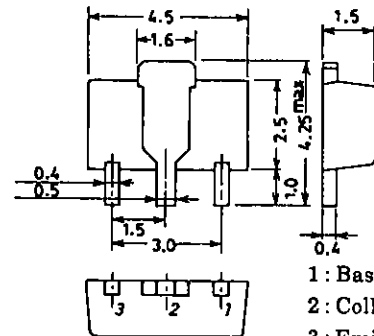
140 S 280	200 T 400
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Marking : AM

h_{FE} rank : S, T

Package Dimensions 2038A

(unit : mm)

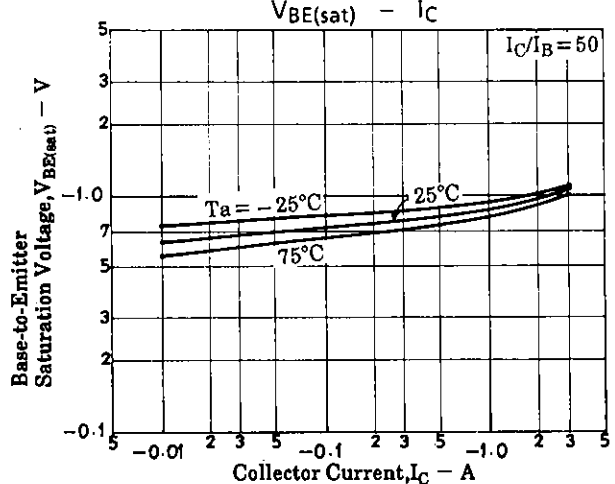
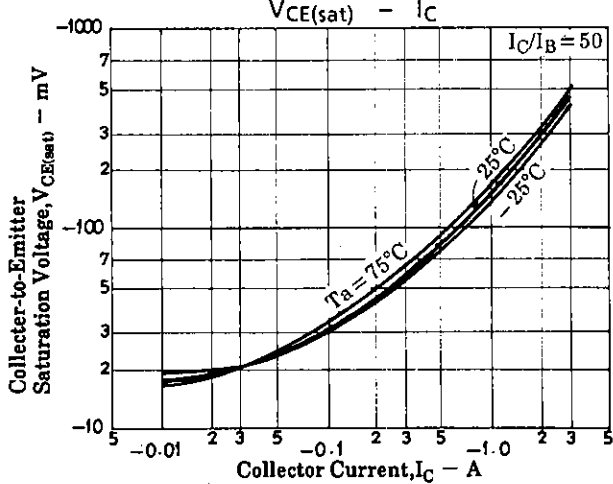
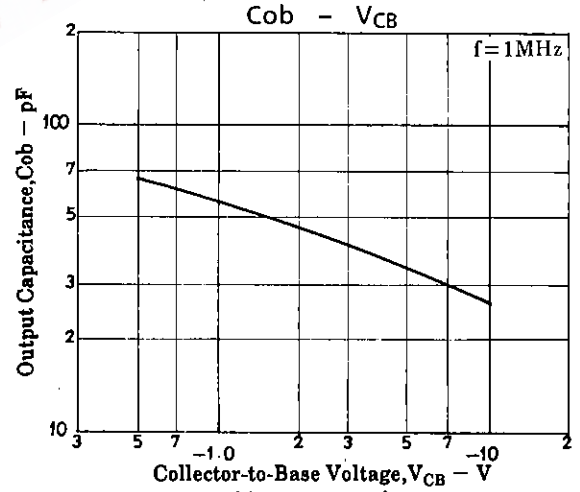
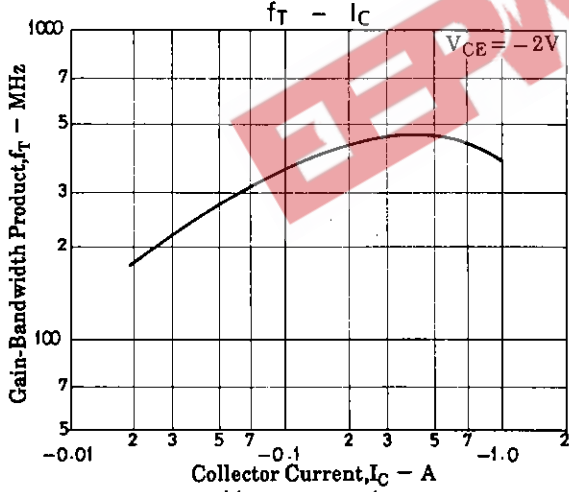
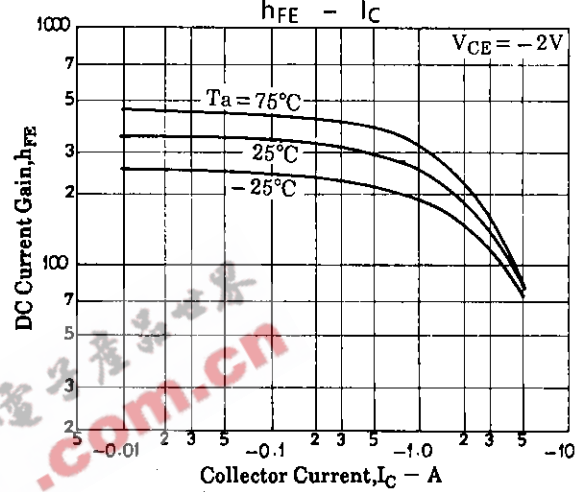
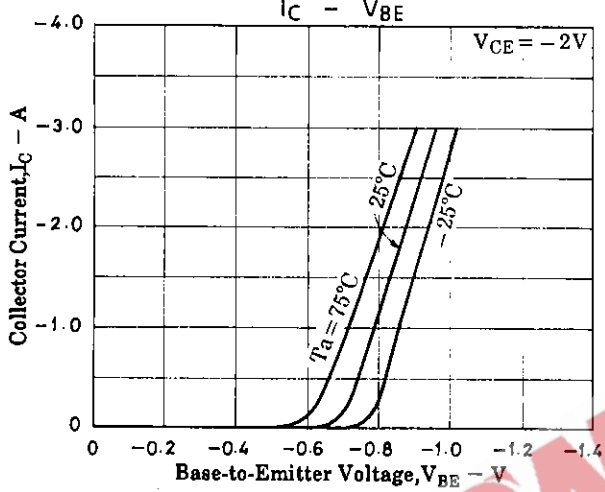
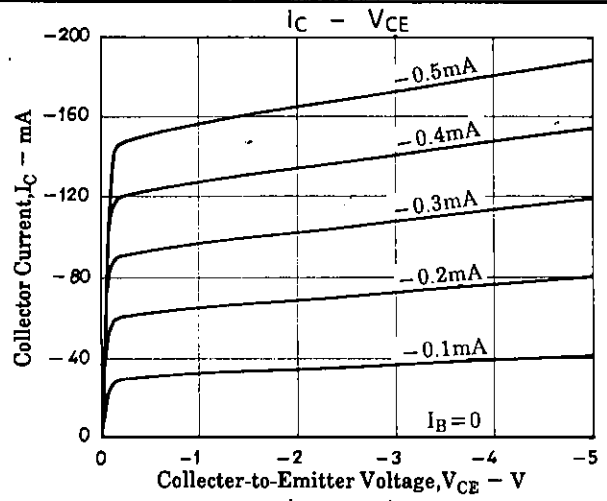
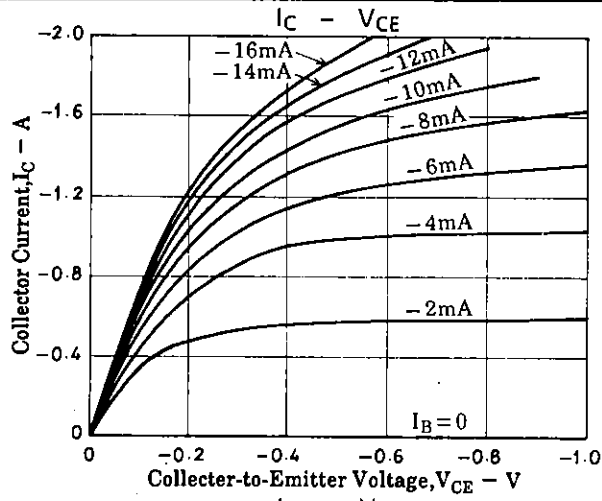


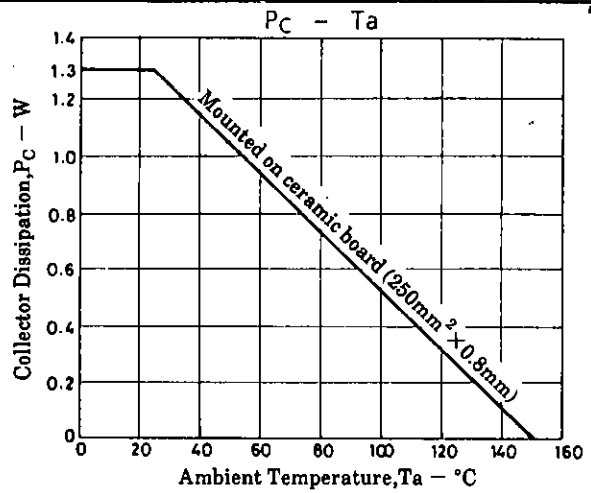
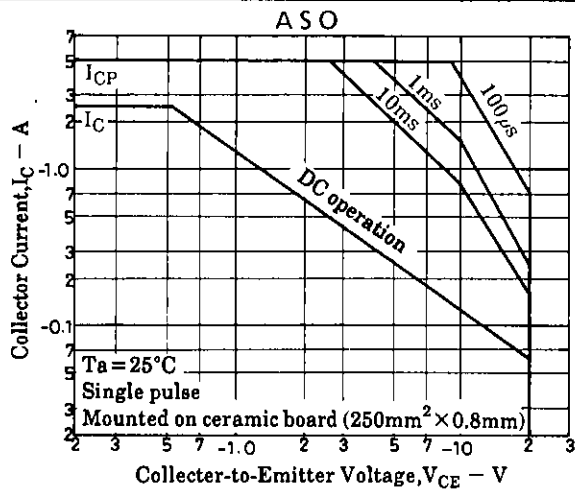
(Bottom View)

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

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