



No.930C

2SB892/2SD1207

PNP/NPN Epitaxial Planar Silicon Transistors

Large-Current Switching Applications

APPLICATIONS

- Power supplies, relay drivers, lamp drivers, and automotive wiring

FEATURES

- FBET and MBIT processed (Original process of SANYO)
- Low saturation voltage
- Large current capacity and wide ASO

Values for 2SB892 shown in ()

ABSOLUTE MAXIMUM RATINGS/T_a=25°C

			unit
Collector to base voltage	V _{CB0}	(-)60	V
Collector to emitter voltage	V _{CE0}	(-)50	V
Emitter to base voltage	V _{EBO}	(-)6	V
Collector current	I _C	(-)2	A
Collector Current(Pulse)	I _{CP}	(-)4	A
Allowable collector dissipation	P _C	1	W
Junction temperature	T _j	150	°C
Storage ambient temperature	T _{stg}	-55~+150	°C

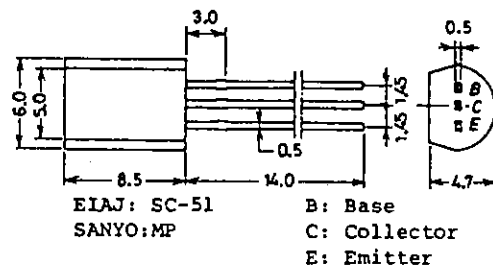
ELECTRICAL CHARACTERISTICS/T_a=25°C

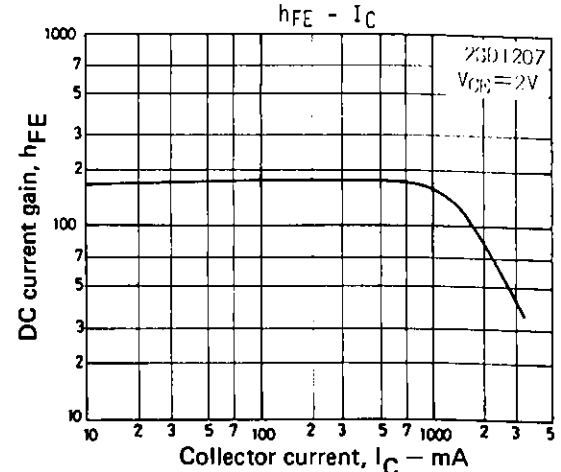
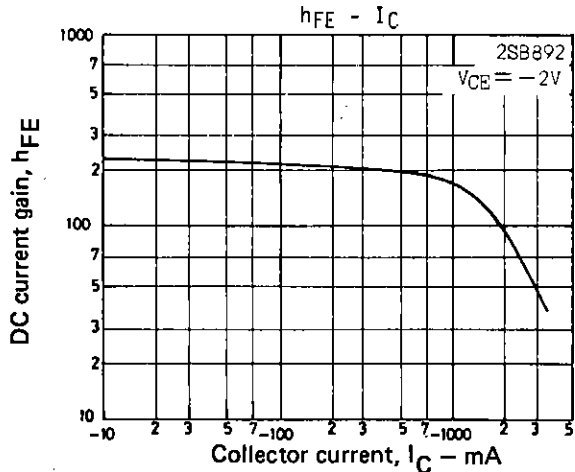
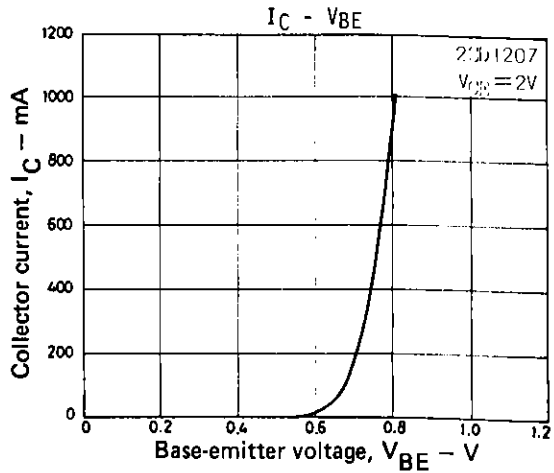
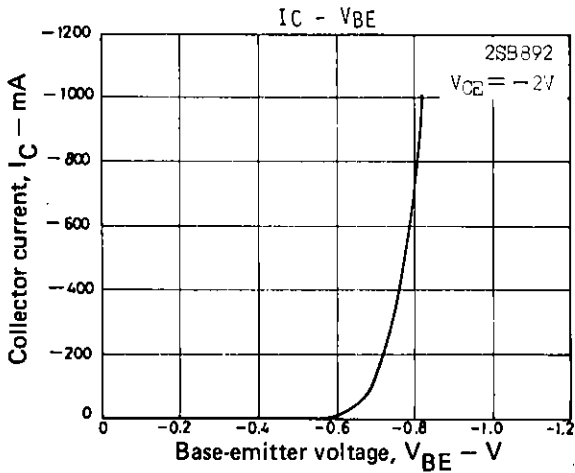
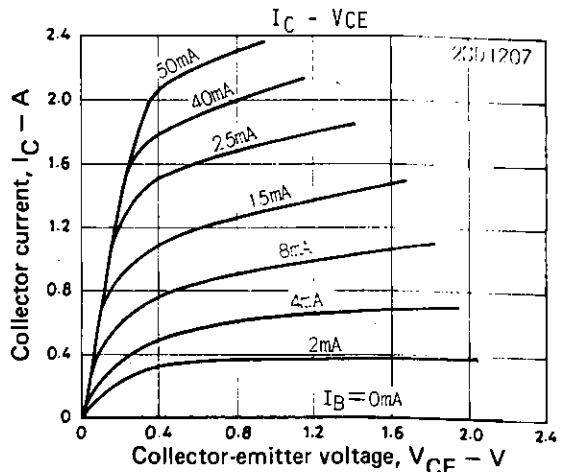
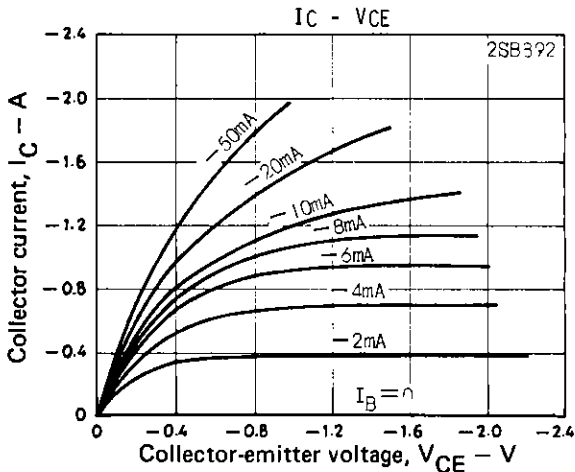
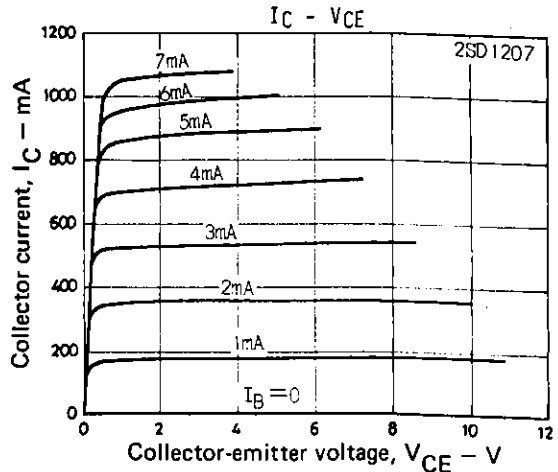
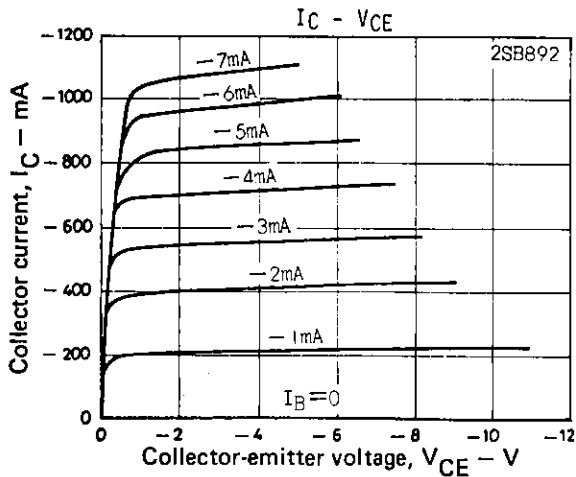
			min	typ	max	unit
Collector cut-off current	I _{CBO}	V _{CB} =(-)50V, I _E =0			(-)0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)0.1	μA
DC current gain	h _{FE} (1)*	V _{CE} =(-)2V, I _C =(-)100mA	100		560	
			h _{FE} (2)	40		
Gain-bandwidth product	f _T	V _{CE} =(-)10V, I _C =(-)50mA		150		MHz
Output capacitance	c _{ob}	V _{CB} =(-)10V, f=1MHz		12		pF
				(22)		pF
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =(-)1A, I _B =(-)50mA	0.15		0.4	V
				(-0.3)	(-0.7)	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =(-)1A, I _B =(-)50mA		(-)0.9	(-)1.2	V
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =(-)10μA, I _E =0	(-)60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =(-)1mA, R _{BE} =∞	(-)50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =(-)10μA, I _C =0	(-)6			V

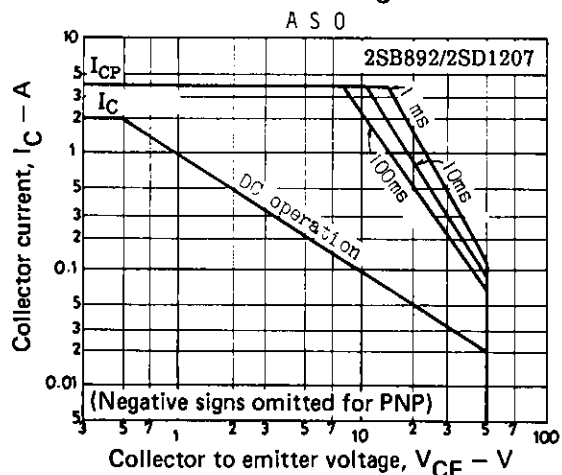
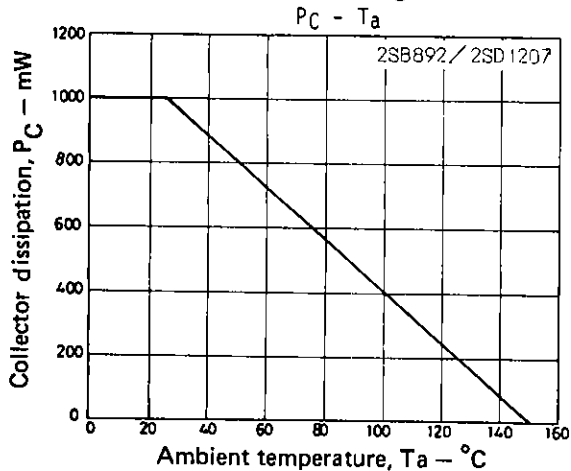
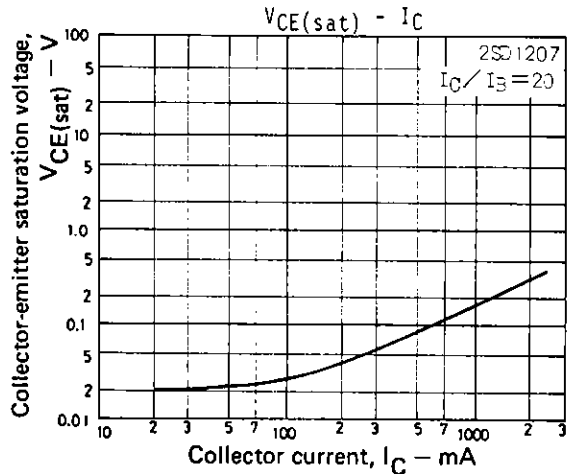
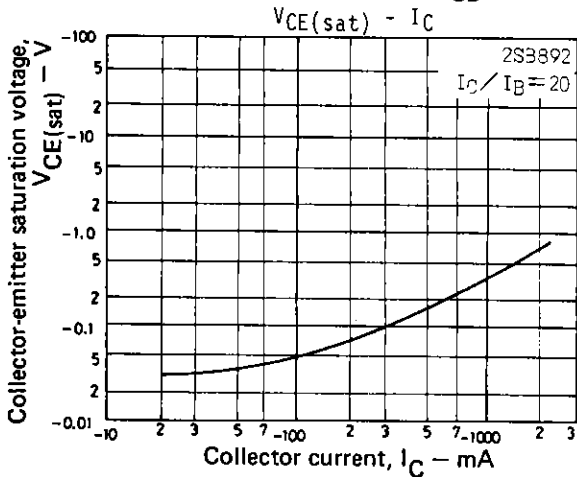
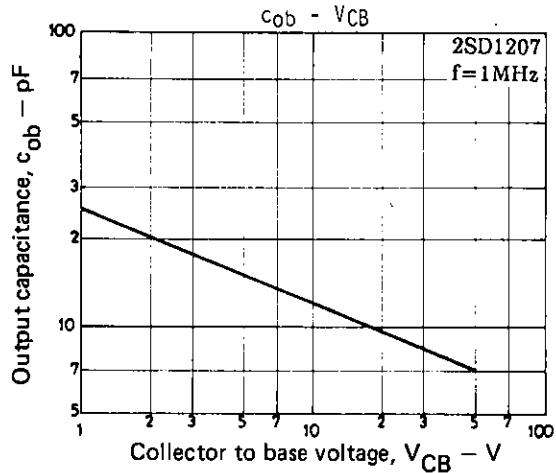
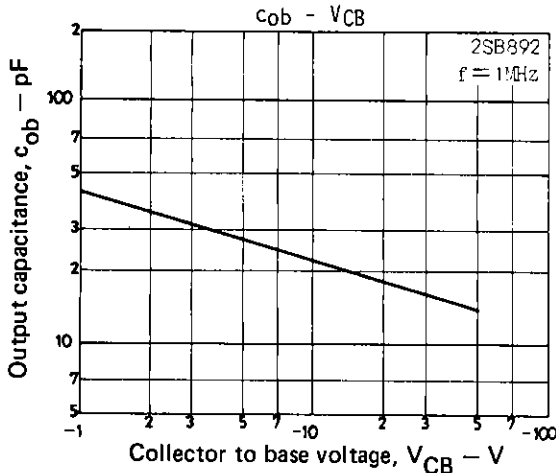
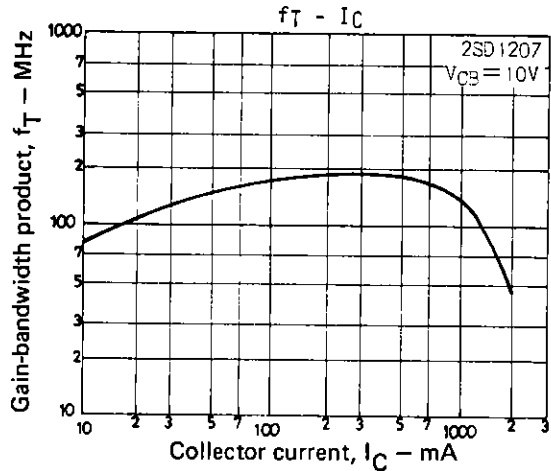
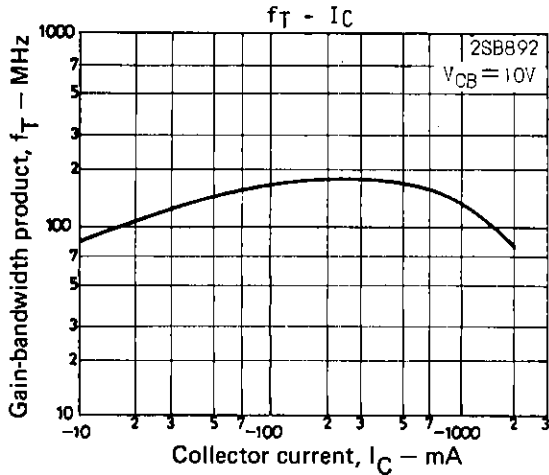
* 2SB892 and 2SD1207 are graded as follows by h_{FE} at 100mA:

100	R	200	140	S	280	200	T	400	280	U	560
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Package Dimensions 2006A
(unit: mm)







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