

2SB892/2SD1207

Large-Current Switching Applications

Features

· 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.

(): 2SB892

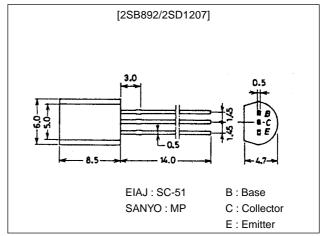
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2006A



Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(–)60	V
Collector-to-Emitter Voltage	VCEO		(–)50	V
Emitter-to-Base Voltage	V _{EBO}		(–)6	V
Collector Current	IC		(–)2	Α
Collector Current (Pulse)	I _{CP}		(-)4	Α
Allowable Collector Dissipation	PC		1	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

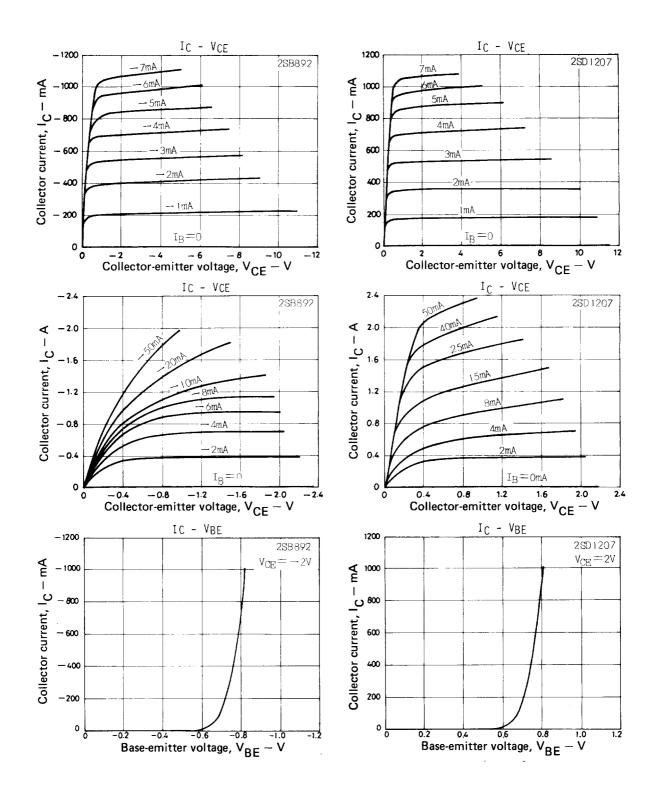
Parameter	Symbol	Conditions		Unit		
Farameter	Symbol	Conditions	min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =(-)50V, I _E =0			(–)0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(–)0.1	μA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)100mA	100		560	
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)1.5A	40			
Gain-Bandwidth Product	fT	V _{CE} =(-)10V, I _C =(-)50mA		150		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)10V, f=1MHz		12		pF
				(22)		pF

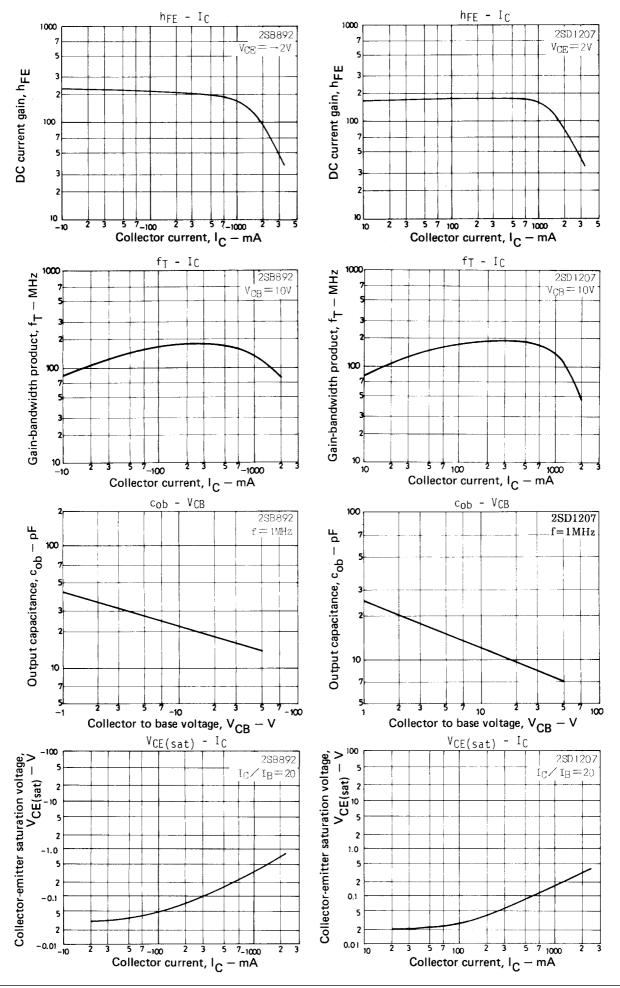
 $[\]ast$: The 2SB892/2SD1207 are graded as follows by h_{FE} at 100mA :

	100	R	200	140	S	280	200	Τ	400	280	U	560
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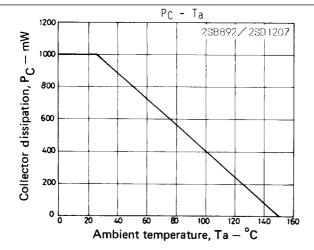
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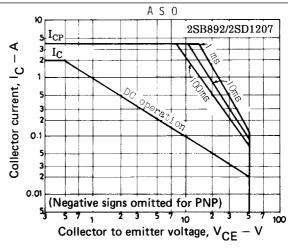
Parameter	Symbol	Conditions		Ratings			
Falanetei	Symbol	Conditions	min	typ	max	Unit	
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)1A, I _B =(-)50mA		0.15	0.4	V	
				(-0.3)	(-0.7)	V	
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)1A, I _B =(-)50mA		(-)0.9	(-)1.2	V	
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)10μA, I _E =0	(–)60			V	
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =(-)1mA, R _{BE} =∞	(–)50			V	
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =(-)10μA, I _C =0	(–)6			V	





2SB892/2SD1207





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