

SANYO Semiconductors **DATA SHEET**

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.

Specifications (-): 2SB892

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(=) 60	V
Collector-to-Emitter Voltage	VCEO		(=) 50	V
Emitter-to-Base Voltage	VEBO		(=) 6	V
Collector Current	IC		(=) 2	Α
Collector Current (Pulse)	ICP		(=) 4	Α
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	Ratings			Unit
			min	typ	max	Uniit
Collector Cutoff Current	ICBO	V _{CB=(=)} 50V, I _E =0A			(=) 0.1	μΑ
Emitter Cutoff Current	IEBO	V _{EB} = (=) 4V, I _C =0A			(=) 0.1	μΑ

Continued on next page.

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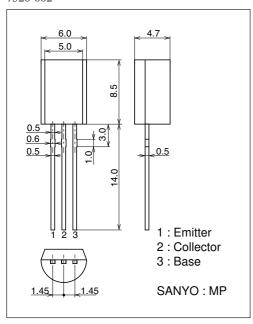
Parameter	Symbol	Conditions	Ratings			Unit
Falameter	Symbol	Conditions	min	typ	max	Offic
DC Current Gain	hFE1*	VCE=(=)2V, IC=(=)100mA	100		560	
	hFE2	V _{CE} = (=) 2V, I _C = (=) 1.5A	40			
Gain-Bandwidth Product	fT	V _{CE} =(=)10V, I _C =(=)50mA		150		MHz
Output Capacitance	Cob	V _{CB} = (=) 10V, f=1MHz		(22) 12		pF
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =(=)1A, I _B =(=)50mA		(=0.3) 0.15	(=0.7) 0.4	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 =0A	(=) 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 =0A	(=) 6			V

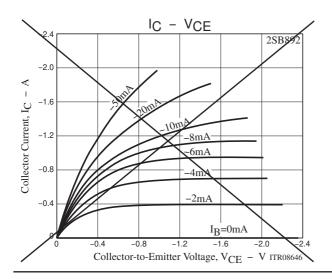
* : The $\frac{2SB8927}{2SD1207}$ are graded as follows by hFE at 100mA :

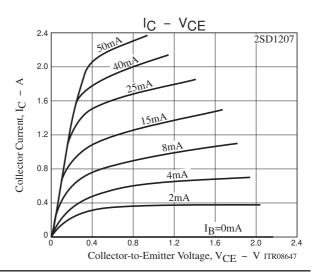
Rank	R	S	T	U
hFE	100 to 200	140 to 280	200 to 400	280 to 560

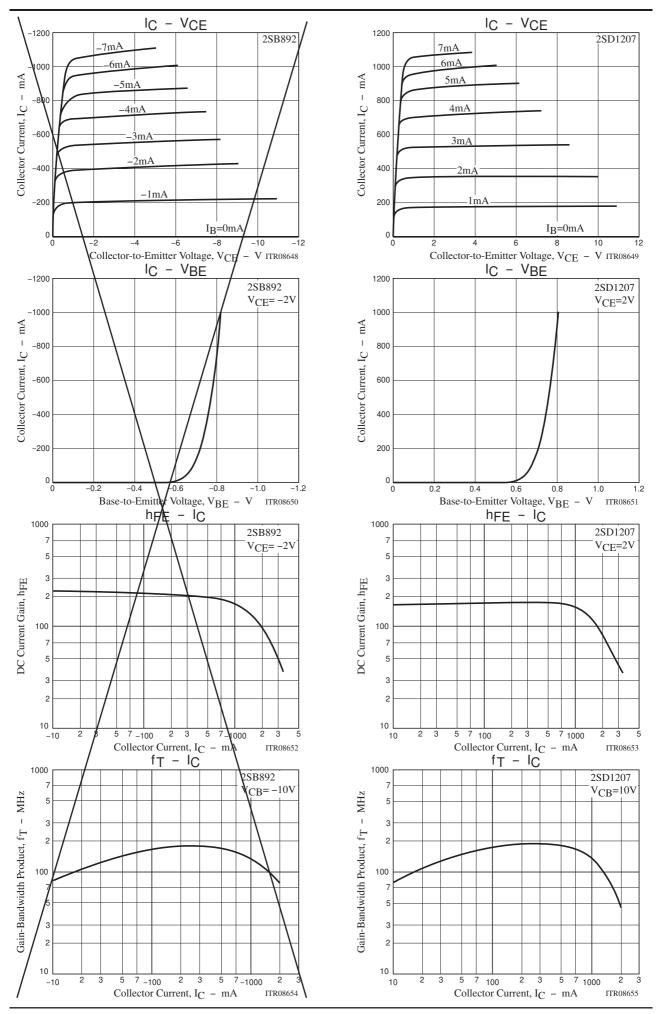
Package Dimensions

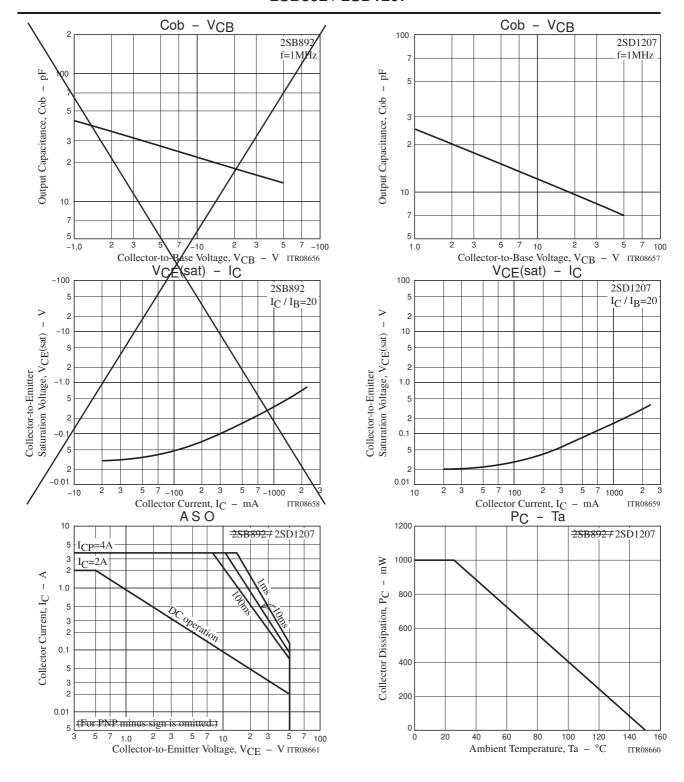
unit : mm (typ) 7520-002











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