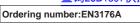
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PNP/NPN Epitaxial Planar Silicon Transistors

2SB1397/2SD2100

Compact Motor Driver Applications

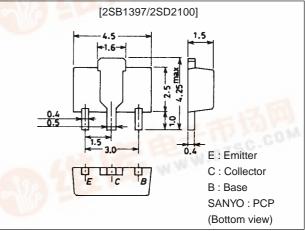
Features

- · Low saturation voltage.
- · Contains diode between collector and emitter.
- · Contains bias resistance between base and emitter.
- · Large current capacity.
- Small-sized package making it easy to provide highdensity, small-sized hybrid ICs.

Package Dimensions

unit:mm





():2SB1397

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(-)25	V
Collector-to-Emitter Voltage	VCEO		(-)20	V
Emitter-to-Base Voltage	VEBO		(–)6	V
Collector Current	IC		(-)2	A
Collector Current (Pulse)	ICP	1 4 A C C C C C C C C C C C C C C C C C C	(–)4	A
Collector Dissipation	PC	Mounted on ceramic board (250mm ² ×0.8mm)	1.3	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	Offic
Collector Cutoff Current	ICBO	V _{CB} =(-)20V, I _E =0			(–)1.0	μΑ
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)0.5A	(–)70			
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)2A	(–)50		1	111
Gain-Bandwidth Product	fT	V _{CE} =(-)2V, I _C =(-)0.5A	-	(300)	2 2 10	MHz
			23.	200	SC-1	MHz
Output Capacitance	Cob	V _{CB} =(-)10V, f=1MHz	in M	(40)25		рF

Marking: 2SB1397: BP

2SD2100 : DP

Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.

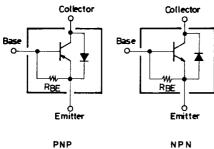
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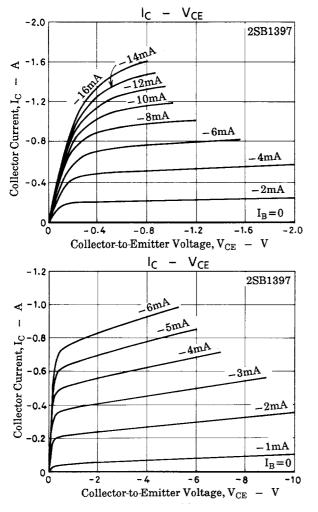
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)1A, I _B =(-)50mA		(–)0.25	(–)0.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)1A, I _B =(-)50mA			(–)1.5	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10µA, I _E =0	(–)25			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO1	I _C =(−)10µA, R _{BE} =∞	(–)25			V
	V(BR)CEO2	I _C =(−)10mA, R _{BE} =∞	(–)20			V
Diode Forwad Voltage	V _F	I _F =0.5A			(–)1.5	k\$Q2
Base-to-Emitter Resistance	R _{BE}			1.6		

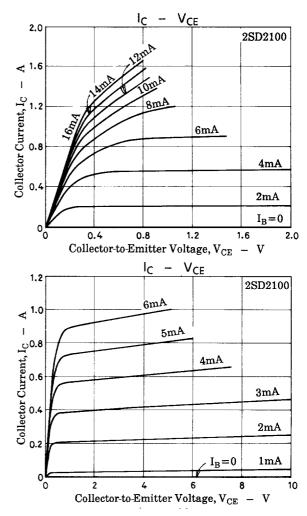
Electrical Connection



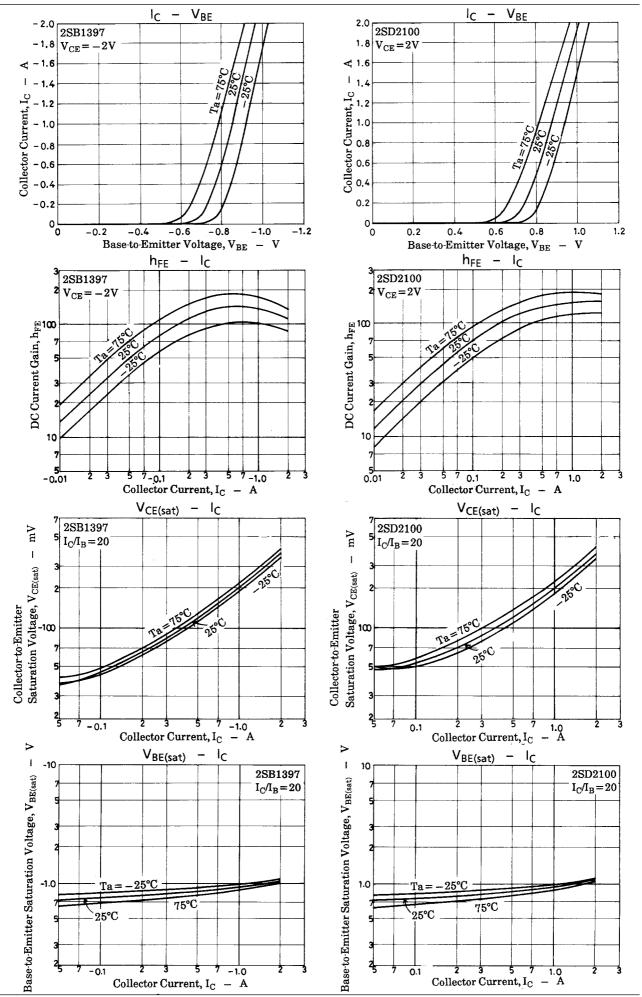


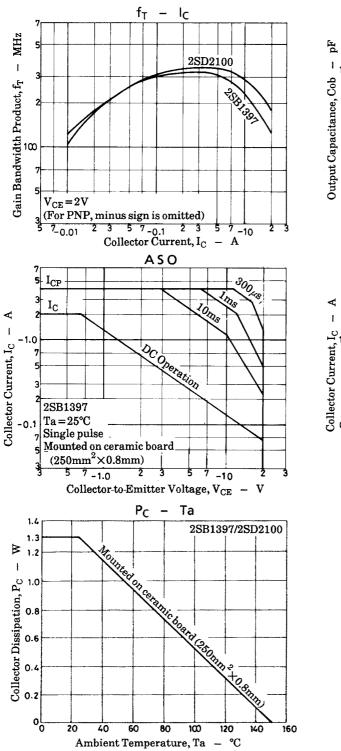


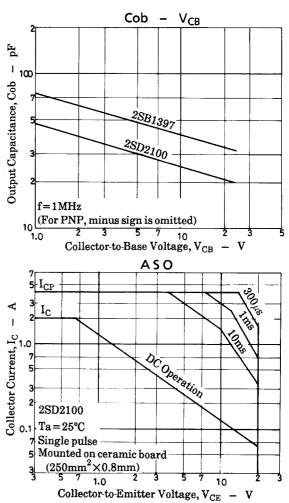




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