Ordering number: EN2554A

PNP/NPN Epitaxial Planar Silicon Transistors



2SB1235/2SD1852

Driver Applications

Features

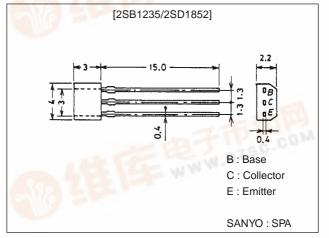
- · AF amplifier, solenoid drivers, LED drivers.
- · Darlington connection.
- · High DC current gain.

Package Dimensions

unit:mm

2033

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(): 2SB1235

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(–)80	V
Collector-to-Emitter Voltage	V _{CEO}		(-)50	V
Emitter-to-Base Voltage	V _{EBO}		(-)10	V
Collector Current	I _C		(-)200	mA
Collector Current (Pulse)	ICP	- sh (-e-	(-)400	mA
Collector Dissipation	PC	A LITTLE	300	mW
Junction Temperature	Tj	AND LEL	150	°C
Storage Temperature	Tstg		-55 to +150	°C

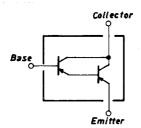
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
Parameter			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)60V, I _E =0			(-)100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)8V, I _C =0			(–)100	nA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)10mA	5000			
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)100mA	4000	LT		
			(3000)		40.	3.00
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)100mA, I _B =(-)100μA		(-)0.9	(–)1.5	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =(-)100mA, I _B =(-)100μA		(–)1.5	(-)2.0	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)10μΑ, I _E =0	(–)80			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 _C =(-)10μA, I _C =0	(–)10			V

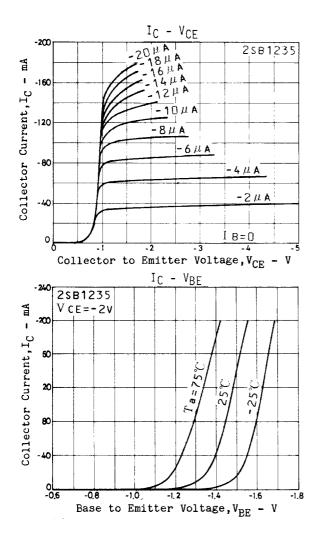
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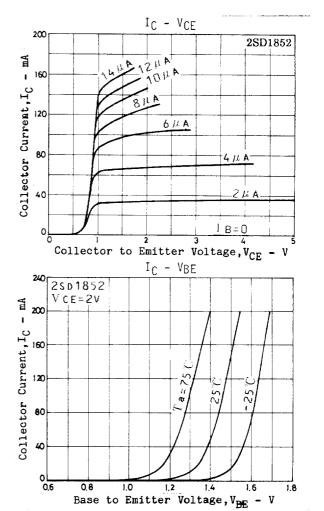
SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters

Electrical Connection

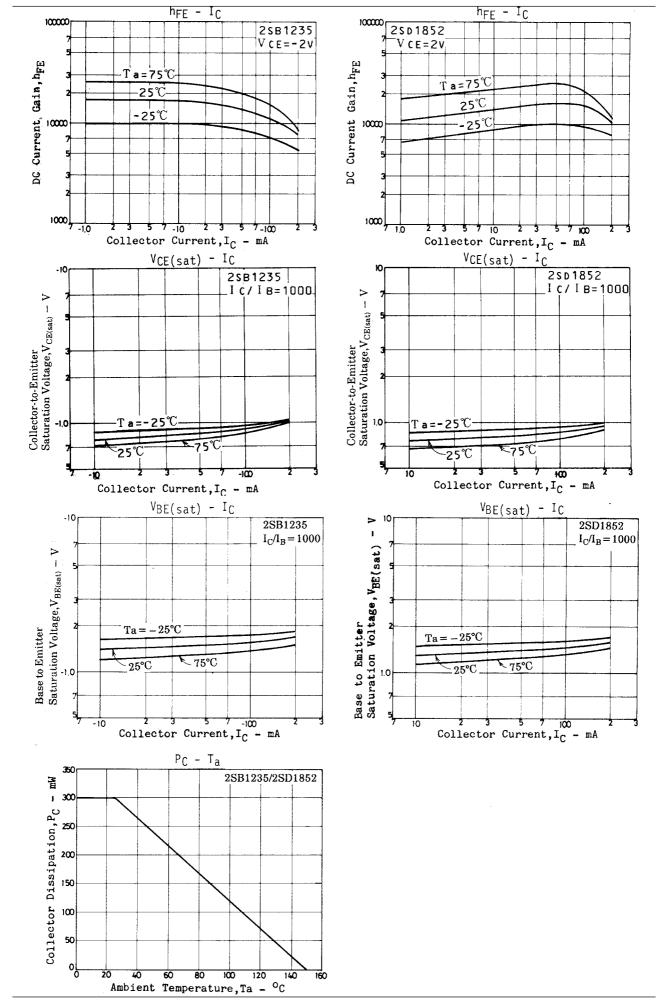


(For NPN, the polarity is reversed.)





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