

2SB1126/2SD1626

For Various Drivers

Applications

· Relay drivers, hammer drivers, lamp drivers, motor drivers.

Features

- · High DC current gain (4000 or greater).
- · Large current capacity.
- · Very small size making it easy to provide highdensity, small-sized hybrid IC's.

(): 2SB1126

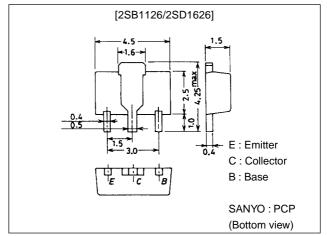
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2038



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		(-)1.5	Α
Collector Current (Pulse)	I _{CP}		(-)3	Α
Collector Dissipation	PC		500	mW
		Mounted on ceramic board (250mm²×0.8mm)	1.5	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

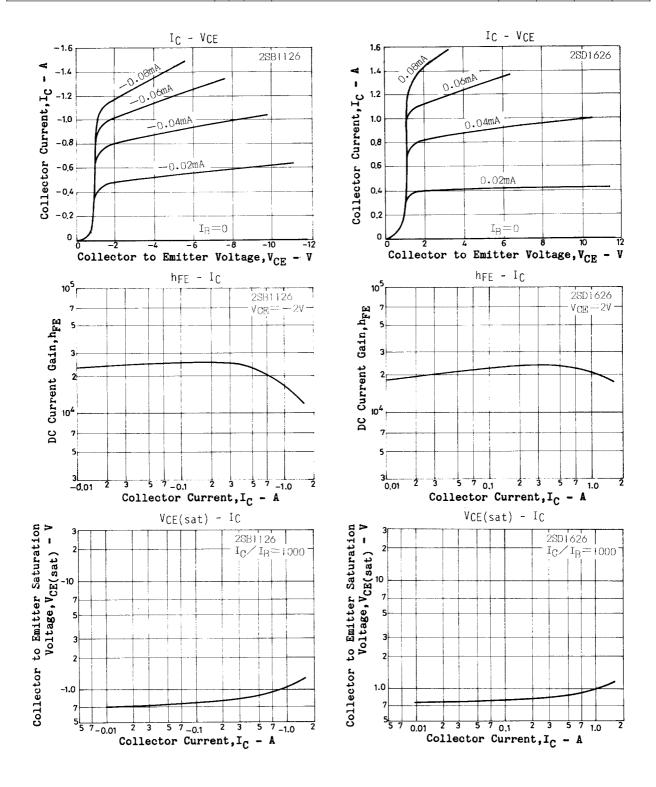
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)40V, I _E =0			(–)100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)8V, I _C =0			(–)100	nA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)500mA	4000			
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)10mA	3000			
Gain-Bandwidth Product	fΤ	V _{CE} =(-)10V, I _C =(-)50mA		120		MHz

Marking 2SB1126 : BI 2SD1626 : DI

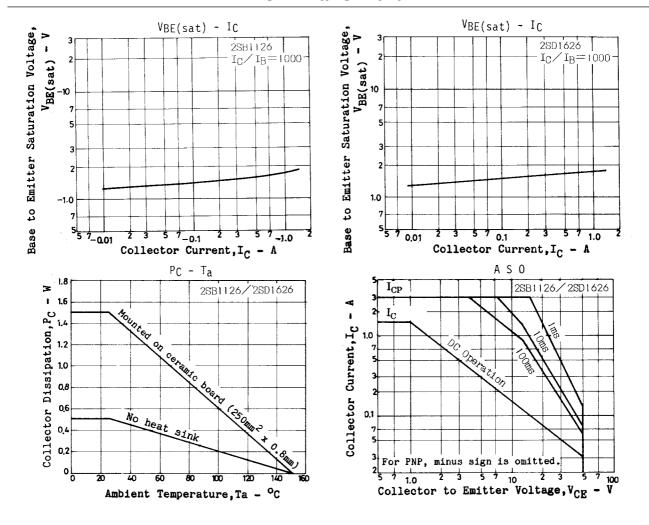
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)500mA, I _B =(-)0.5mA		(–)0.9	(–)1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)500mA, I _B =(-)0.5mA		(–)1.5	(-)2.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μA, 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}	$I_{E}=(-)10\mu A, I_{C}=0$	(–)10			V



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