

Power Transistor (-80V, -1A)

2SB1260 / 2SB1181 / 2SB1241

Features

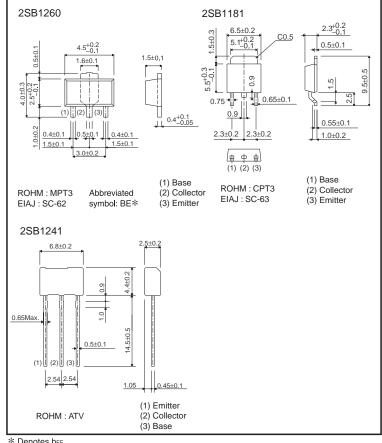
- 1) Hight breakdown voltage and high current.
- $BV_{CEO} = -80V$, $I_{C} = -1A$
- 2) Good hee linearty.
- 3) Low VCE(sat).

Complements the 2SD1898 / 2SD1863 / 2SD1733.

 Structure Epitaxial planar type

PNP silicon transistor

•Dimensions (Unit : mm)



* Denotes hre

●Absolute maximum ratings (Ta=25°C)

Par	ameter	Symbol	Limits	Unit
Collector-base ve	oltage	Vсво	-80	V
Collector-emitter	voltage	Vceo	-80	V
Emitter-base volt	tage	Vево	-5	V
Collector current		lc	-1	A (DC)
Collector current		Іср	-2 *1	A (Pulse)
	2SB1260		0.5	
Collector power	2361200	D-	2 *2	W
dissipation	2SB1241, 2SB1181	Pc	1 * ³	
	2SB1181		10	W (Tc=25°C)
Junction tempera	ature	Tj	150	°C
Storage tempera	ture	Tstg	-55 to +150	°C

*1 2SB1260 : Pw=20ms duty=1/2

2SB1241 : Single pulse, Pw=100ms

*2 2SB1260 : When mounted on a 40×40×0.7 mm ceramic board.

*3 2SB1241 : Printed circuit board, 1.7mm thick, collector copper plating 100mm² or larger.

●Electrical characteristics (Ta=25°C)

Param	eter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage		ВУсво	-80	-	-	V	Ic=-50μA
Collector-emitter breakdown voltage		BVCEO	-80	-	-	V	Ic=-1mA
Emitter-base breakdo	own voltage	BVebo	-5	-	-	V	Iε=-50μA
Collector cutoff current		Ісво	_	_	-1	μΑ	Vcb=-60V
Emitter cutoff current		Іево	-	-	-1	μΑ	VEB=-4V
Collector-emitter satu	ration voltage	VCE(sat)	-	-	-0.4	V	Ic/I _B = -500mA/ -50mA
DC current transfer ratio	2SB1260, 2SB1181	hfe	120	-	390	-	Vce= -3V. lc= -0.1A
DC current transfer fatto	2SB1241		120	-	390	-	VCE = -3V, IC = -0.1A
Transition frequency	2SB1181	f⊤	-	100	-	MHz	Vce=-10V, Ie=50mA, f=100MHz
	2SB1260	Cob	_	20	_	pF	Vcb= –10V IE=0A
Output capacitance	2SB1181, 2SB1241		_	25	_	pF	f=1MHz

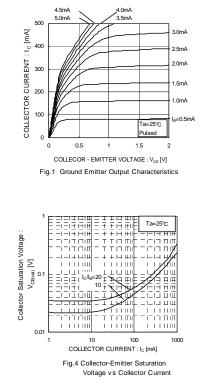
Packaging specifications and hfe

		Package		Taping	
		Code	TL	TV2	T100
Туре	hfe	Basic ordering unit (pieces)	2500	2500	1000
2SB1260	QR		-	_	0
2SB1241	QR		-	0	_
2SB1181	QR		0	_	_

hFE values are classified as follows :

Item	Q	R
hfe	120 to 270	180 to 390

•Electrical characteristic curves



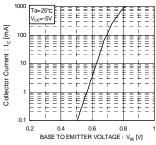
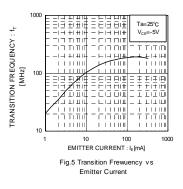


Fig.2 Grounded Emitter Propagation Characteristics



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DC CURRENT GAIN : h _{FE}	1000	
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		COLLECTOR CURRENT : Ic [mA]

Fig.3 DC Current Gain vs Collector Current

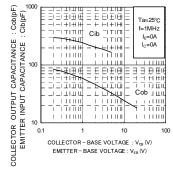


Fig.6 Emitter Input Capacitance vs. Emitter-Base Voltage Collector Output Capacitance vs. Collector-Base

	Notes
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