

Power Transistor (-80V, -1A)

2SB1260 / 2SB1181 / 2SB1241

Features

- 1) Hight breakdown voltage and high current. BVcEo= -80V, Ic = -1A
- 2) Good her linearty.
- 3) Low VCE(sat).

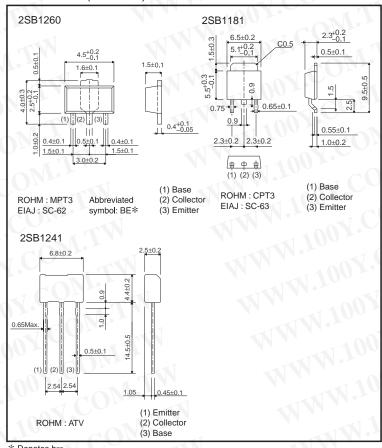
Complements the 2SD1898 / 2SD1863 / 2SD1733.

Structure

Epitaxial planar type PNP silicon transistor

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

●Dimensions (Unit : mm)



* Denotes her

● Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	-80	1 (V)	
Collector-emitter voltage		Vceo	-80	V	
Emitter-base voltage		VEBO	-5		
Collector current		lc lc	-1	A (DC)	
		ICP	-2 *1	A (Pulse)	
Collector power dissipation	2SB1260		0.5	w	
			2 *2		
	2SB1241, 2SB1181	Pc	1 *3		
	2SB1181		10	W (Tc=25°C)	
Junction temperature		Ti	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

^{*1 2}SB1260 : Pw=20ms duty=1/2

2SB1241 : Single pulse, Pw=100ms

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

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

●Electrical characteristics (Ta=25°C)

Parameter		Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage		ВУсво	-80	N -	_	V	Ic= -50μA	
Collector-emitter breakdown voltage		BVceo	-80	_	_	V	Ic= -1mA	
Emitter-base breakdown voltage		ВVево	-5		_	V	I _E = -50μA	
Collector cutoff current		Ісво	(F)	_	-1	μΑ	VcB= -60V	
Emitter cutoff current		ІЕВО	_		-1	μΑ	V _{EB} = -4V	
Collector-emitter saturation voltage		VCE(sat)	1-1	,)_ `	-0.4	V	Ic/I _B = -500mA/ -50mA	
DC current transfer ratio	2SB1260, 2SB1181	hfE	120	-	390	_	Vce= -3V, Ic= -0.1A	
	2SB1241	HIFE	120	1-1	390	_		
Transition frequency	2SB1181	fτ	72,	100	1	MHz	Vc=-10V, I=50mA, f=100MHz	
Output capacitance	2SB1260	Cob	~70	20	_	pF	Vcb= -10V IE=0A	
	2SB1181, 2SB1241			25	-	pF	f=1MHz	

●Packaging specifications and hfe

- 1		Package	Taping			
		Code	TL	TV2	T100	
Туре	hfe	Basic ordering unit (pieces)	2500	2500	1000	
2SB1260	QR		-	To a	0	
2SB1241	QR			0		
2SB1181	QR		0	Tā	<	

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hre values are classified as follows:

Item	Q	R	
hfe	120 to 270	180 to 390	

•Electrical characteristic curves

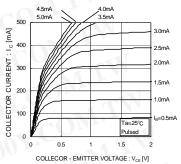
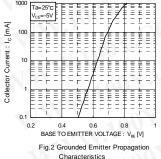


Fig.1 Ground Emitter Output Characteristics



Characteristics

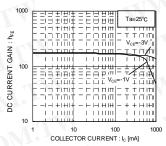
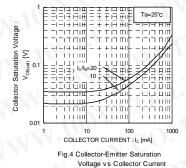
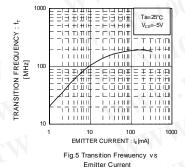


Fig.3 DC Current Gain vs Collector Current





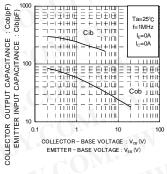


Fig.6 Emitter Input Capacitance vs. Emitter-Base Voltage Collector Output Capacitance vs. Collector-Base

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