imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Medium Power Transistor (-32V, -1A)

2SB1132 / 2SA1515S / 2SB1237

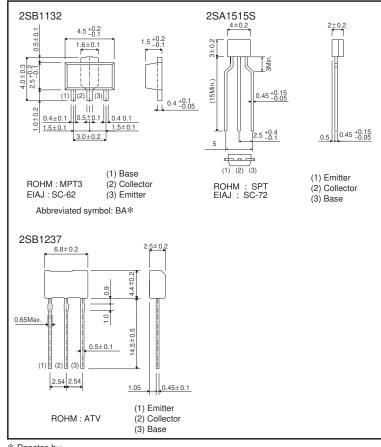
Features

- 1) Low VCE(sat).
- $V_{CE(sat)} = -0.2V(Typ.)$ $(I_{C} / I_{B} = -500 \text{mA} / -50 \text{mA})$ 2) Compliments 2SD1664 /
- 2SD1858

Structure

Epitaxial planar type PNP silicon transistor

•Dimensions (Unit : mm)



* Denotes hre

•Absolute maximum ratings (Ta=25°C)

			,		
Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	-40	V	
Collector-emitter voltage		Vceo	-32	V	
Emitter-base voltage		VEBO	-5	V	
0.11.1	Collector current		-1	A(DC)	
Collector curren			-2	A(Pulse) *1	
	2SB1132		0.5		
Collector power dissipation		5	2	*2 W	
	2SA1515S	Pc	0.3	vv	
	2SB1237		1	*3	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

*1 Single pulse, Pw=100ms
*2 When mounted on a 40×40×0.7 mm ceramic board.
*3 Printed circuit board, 1.7 mm thick, collector copper plating 100mm² or larger.

•Electrical characteristics (Ta=25°C)

Parameter		Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage		ВУсво	-40	-	-	V	Ic= -50μA	
Collector-emitter breakdown voltage		BVCEO	-32	_	_	V	Ic= -1mA	
Emitter-base breakdown voltage		ВУево	-5	-	-	V	Iε= -50μA	
Collector cutoff cu	pr cutoff current IcBo0.5 μA VcB= -20V		Vcb= -20V					
Emitter cutoff curre	current I _{EBO} 0.5 μA V _{EB=} -4V		VEB= -4V					
Collector-emitter s	or-emitter saturation voltage V _{CE(sat)} – –0.2 –0.5 V I _C /I _B = –500mA/–50m		Ic/I _B = -500mA/-50mA *					
DC current	2SB1132, 2SB1237	I=	120	-	390	-	*	
transfer ratio	2SA1515S	hfe	120	-	390	-	Vce= -3V, Ic= -0.1A	
Transition frequen	on frequency fr - 150 - MHz Vc= -5V, I=50mA, f=30M		Vce= -5V, Ie=50mA, f=30MHz					
Output capacitanc	Dutput capacitance Cob – 20 30 pF V _{CB=} –		VCB= -10V, IE=0A, f=1MHz					

* Measured using pulse current.

•Packaging specifications and hre

		Package		Taping	
		Code	T100	TP	TU2
Туре	hfe	Basic ordering unit (pieces)	1000	5000	2500
2SB1132	QR		0	-	-
2SA1515S	QR		_	0	_
2SB1237	QR		_	_	0

hFE values are classified as follows :

Item	Q	R	
hfe	120 to 270	180 to 390	

•Electrical characteristics curves

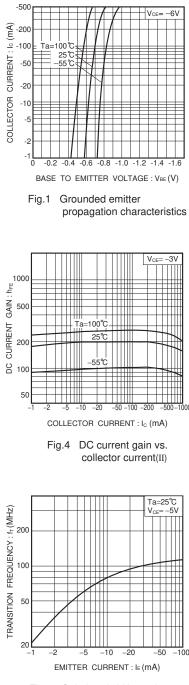
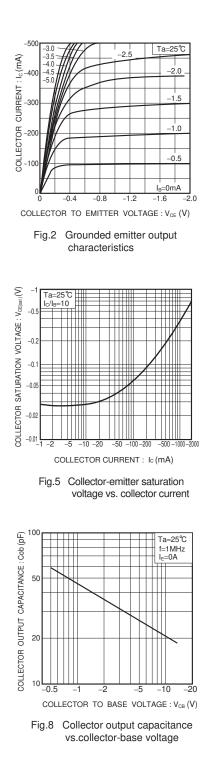
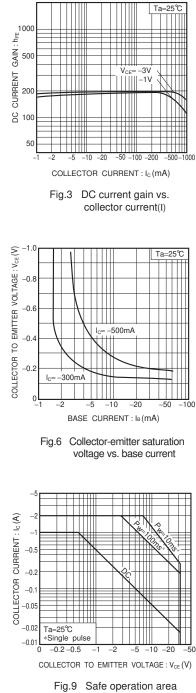


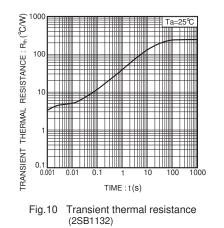
Fig.7 Gain bandwidth product vs. emitter current

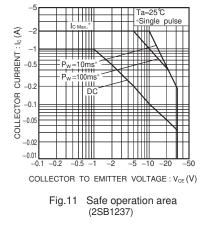


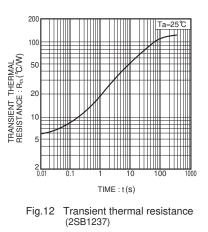


(2SB1132)

2SB1132 / 2SA1515S / 2SB1237







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