



PRODUCT NAME : 2SB1237 PNP General Purpose Transistor

PRICE : Rs 30.00

SKU : RM2148

DESCRIPTION

Features

- Collector-Emitter Volt (V_{ce0}): 32V
- Collector-Base Volt (V_{cbo}): 40V
- Collector Current (I_c): 1.0A
- h_{fe} : 82-390 @ 100mA
- Power Dissipation (P_{tot}): 1000mW
- Current-Gain-Bandwidth (f_{total}): 150MHz
- Type: PNP



Transistors

Medium Power Transistor (-32V, -1A) 2SB1132 / 2SA1515S / 2SB1237

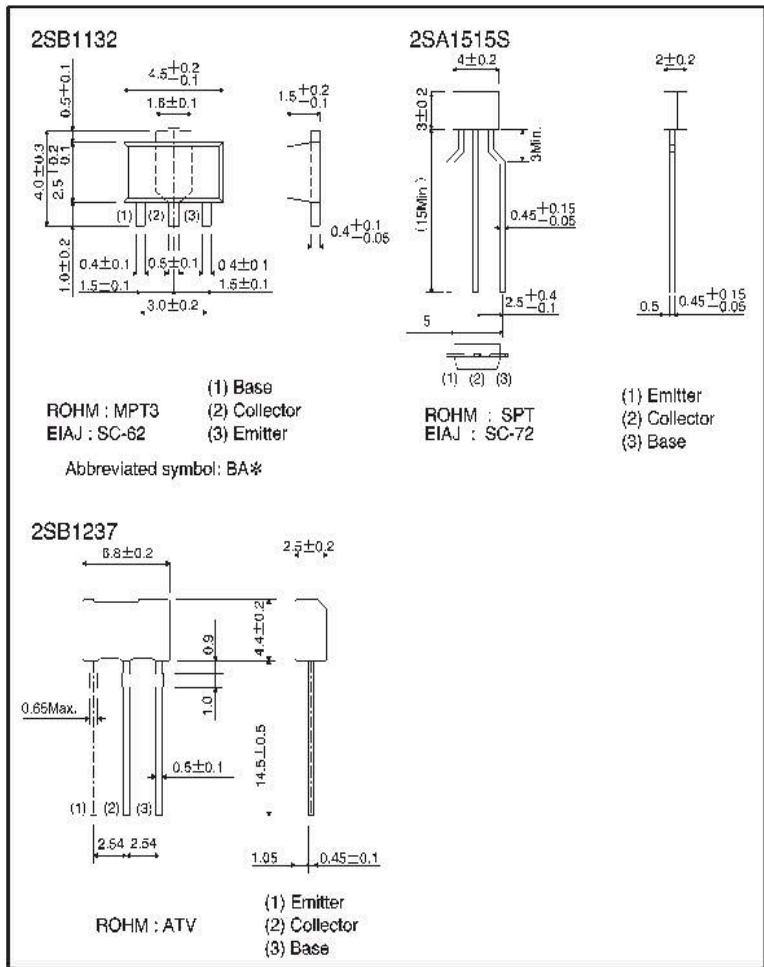
●Features

- 1) Low $V_{CE(sat)}$.
 $V_{CE(sat)} = -0.2V$ (Typ.)
 $(I_C / I_B = -500mA / -50mA)$
- 2) Compliments 2SD1664 / 2SD1858.

●Structure

Epitaxial planar type
 PNP silicon transistor

●External dimensions (Units: mm)



* Denotes hFE

Transistors

2SB1132 / 2SA1515S / 2SB1237

●Absolute maximum ratings (Ta = 25°C)

Parameter		Symbol	Limits	Unit
Collector-base voltage		V _{CB0}	-40	V
Collector-emitter voltage		V _{CE0}	-32	V
Emitter-base voltage		V _{EB0}	-5	V
Collector current		I _c	-1 -2	A (DC) A (Pulse) *1
Collector power dissipation	2SB1132	P _c	0.5	W *2
	2SA1515S		2	
	2SB1237		0.3	
			1	
Junction temperature		T _J	150	°C
Storage temperature		T _{stg}	-55~+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.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage		BV _{CB0}	-40	—	—	V	I _c =-50 μA
Collector-emitter breakdown voltage		BV _{CE0}	-32	—	—	V	I _c =-1mA
Emitter-base breakdown voltage		BV _{EB0}	-5	—	—	V	I _E =-50 μA
Collector cutoff current		I _{cBO}	—	—	-0.5	μA	V _{CB} =-20V
Emitter cutoff current		I _{EBO}	—	—	-0.5	μA	V _{EB} =-4V
Collector-emitter saturation voltage		V _{CE(sat)}	—	-0.2	-0.5	V	I _c /I _E =-500mA/-50mA *
DC current transfer ratio	2SB1132, 2SB1237	h _{FE}	82	—	390	—	V _{CE} =-3V, I _c =-0.1A *
	2SA1515S		120	—	390	—	
Transition frequency		f _T	—	150	—	MHz	V _{CE} =-5V, I _E =50mA, f=30MHz
Output capacitance		C _{ob}	—	20	30	pF	V _{CB} =-10V, I _E =0A, f=1MHz

* Measured using pulse current.

●Packaging specifications and h_{FE}

Type	h _{FE}	Package	Taping		
		Code	T100	TP	TU2
		Basic ordering unit (pieces)	1000	5000	2500
2SB1132	PQR		○	—	—
2SA1515S	QR		—	○	—
2SB1237	PQR		—	—	○

h_{FE} values are classified as follows :

Item	P	Q	R
h _{FE}	82~180	120~270	180~390

