

Medium power transistor (-32V, -2A)

2SB1182 / 2SB1240

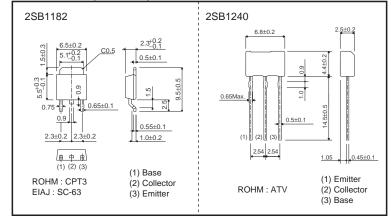
Features

- 1) Low VCE(sat).
- $V_{CE(sat)} = -0.5V (Typ.)$
- $(Ic/I_B = -2A / -0.2A)$
- 2) Complements 2SD1758 / 2SD1862.

•Structure

Epitaxial planar type PNP silicon transistor

•Dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Par	ameter	Symbol	Limits	Unit	
Collector-base v	ctor-base voltage		-40	V	
Collector-emitter voltage		oltage VCEO -32 V			
Emitter-base vo	Itage	Vево	-5	V	
			-2	A(DC)	
Collector curren	t	lc	-3	A (Pulse) *1	
Collector power 2SB1182		5	10	W (Tc=25°C)	
dissipation	2SB1240	Pc	1	W *2	
Junction temper	ature	Tj	150	°C	
Storage tempera	ature	Tstg	-55 to 150	°C	

*1 Single pulse, Pw=100ms

*2 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	-40	-	-	V	Ic=-50μA	
Collector-emitter breakdown voltage	BVCEO	-32	-	-	V	Ic=-1mA	
Emitter-base breakdown voltage BV _{EBO} -5		-	V	Iε= -50μA			
Collector cutoff current	Icbo – – – 1 μΑ Vcb=-20V						
Emitter cutoff current	Іево	_	_	-1	μΑ	Veb=-4V	
Collector-emitter saturation voltage	VCE(sat)	_	-0.5	-0.8	V	Ic/I _B = -2A/ -0.2A	*
DC current transfer ratio	hfe	120	-	390	-	Vce= -3V, Ic= -0.5A	*
Transition frequency	ransition frequency f_T - 100 - MHz Vce= -5V, Ie=0.5A, f=10		Vce= -5V, Ie=0.5A, f=100MHz				
Output capacitance	Cob	-	50	-	pF	Vcb= –10V, Ie=0A, f=1MHz	

* Measured using pulse current.

Packaging specifications and hre

		Package	Тар	ing
		Code	TL	TV2
Туре	hfe	Basic ordering unit (pieces)	2500	2500
2SB1182	QR		0	_
2SB1240	QR		_	0

hFE values are classified as follows :

Item	Q	R
hfe	120 to 270	180 to 390

•Electrical characteristic curves

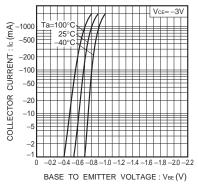


Fig.1 Grounded emitter propagation characteristics

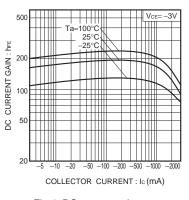


Fig.4 DC current gain vs. collector current (II)

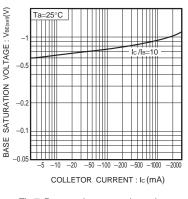
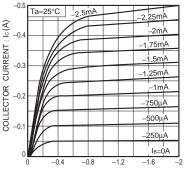


Fig.7 Base-emitter saturation voltage vs. collector current



COLLECTOR TO EMITTER VOLTAGE : VCE (V)

Fig.2 Grounded emitter output characteristics

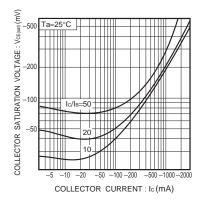
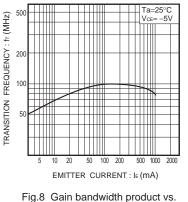
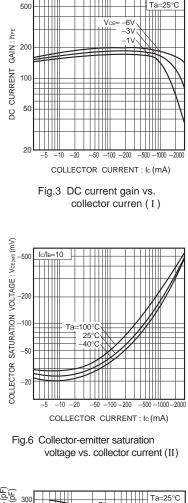
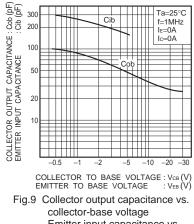


Fig.5 Collector-emitter saturation voltage vs. collector current (I)

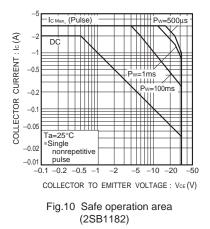


emitter current





Emitter input capacitance vs. emitter-base voltage



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