

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

2SB1182 / 2SB1240

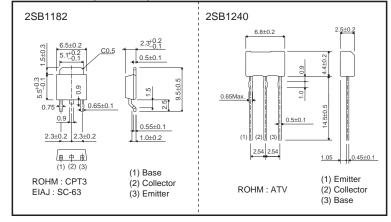
Features

- 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

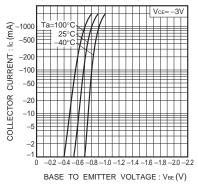


Fig.1 Grounded emitter propagation characteristics

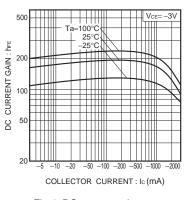


Fig.4 DC current gain vs. collector current (II)

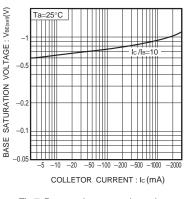
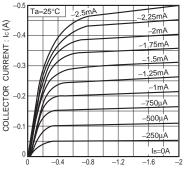


Fig.7 Base-emitter saturation voltage vs. collector current



COLLECTOR TO EMITTER VOLTAGE : VCE (V)

Fig.2 Grounded emitter output characteristics

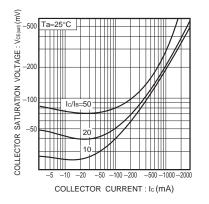
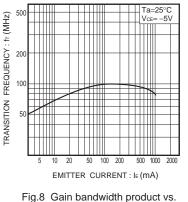
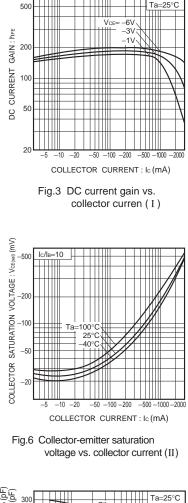
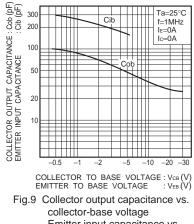


Fig.5 Collector-emitter saturation voltage vs. collector current (I)

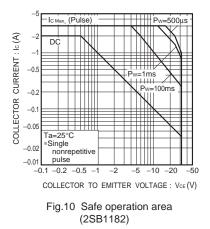


emitter current





Emitter input capacitance vs. emitter-base voltage



	copying or reproduction of this document, in part or in whole, is permitted without the asent of ROHM Co.,Ltd.
The	e content specified herein is subject to change for improvement without notice.
"Pr	e content specified herein is for the purpose of introducing ROHM's products (hereinafte oducts"). If you wish to use any such Product, please be sure to refer to the specifications ich can be obtained from ROHM upon request.
illu	amples of application circuits, circuit constants and any other information contained herein strate the standard usage and operations of the Products. The peripheral conditions mus taken into account when designing circuits for mass production.
Ho	eat care was taken in ensuring the accuracy of the information specified in this document wever, should you incur any damage arising from any inaccuracy or misprint of such prmation, ROHM shall bear no responsibility for such damage.
exa imp oth	e technical information specified herein is intended only to show the typical functions of an imples of application circuits for the Products. ROHM does not grant you, explicitly o plicitly, any license to use or exercise intellectual property or other rights held by ROHM and er parties. ROHM shall bear no responsibility whatsoever for any dispute arising from the of such technical information.
equ	Products specified in this document are intended to be used with general-use electronic upment or devices (such as audio visual equipment, office-automation equipment, commu ation devices, electronic appliances and amusement devices).
The	Products specified in this document are not designed to be radiation tolerant.
	ile ROHM always makes efforts to enhance the quality and reliability of its Products, a duct may fail or malfunction for a variety of reasons.
aga fail sha	ase be sure to implement in your equipment using the Products safety measures to guard ainst the possibility of physical injury, fire or any other damage caused in the event of the ure of any Product, such as derating, redundancy, fire control and fail-safe designs. ROHM all bear no responsibility whatsoever for your use of any Product outside of the prescribed uppe or not in accordance with the instruction manual.
sys ma ins cor of t	e Products are not designed or manufactured to be used with any equipment, device o tem which requires an extremely high level of reliability the failure or malfunction of which y result in a direct threat to human life or create a risk of human injury (such as a medica trument, transportation equipment, aerospace machinery, nuclear-reactor controller, fuel- ntroller or other safety device). ROHM shall bear no responsibility in any way for use of any the Products for the above special purposes. If a Product is intended to be used for any ch special purpose, please contact a ROHM sales representative before purchasing.
be	ou intend to export or ship overseas any Product or technology specified herein that ma controlled under the Foreign Exchange and the Foreign Trade Law, you will be required to ain a license or permit under the Law.



Thank you for your accessing to ROHM product informations. More detail product informations and catalogs are available, please contact us.

ROHM Customer Support System

http://www.rohm.com/contact/

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by ROHM manufacturer:

Other Similar products are found below :

619691C MCH4017-TL-H BC546/116 BC557/116 BSW67A NTE158 NTE187A NTE195A NTE2302 NTE2330 NTE63 C4460 2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA2126-E 2SB1204S-TL-E 2SC5488A-TL-H 2SD2150T100R SP000011176 FMMTA92QTA 2N2369ADCSM 2SC2412KT146S 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E US6T6TR 732314D CMXT3906 TR CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR EMT2T2R MCH6102-TL-E FP204-TL-E NJL0302DG 2N3583 2SA1434-TB-E 2SC3143-4-TB-E 2SD1621S-TD-E NTE103 30A02MH-TL-E NSV40301MZ4T1G NTE101 NTE13 NTE15