Low VCE(sat) Transistor (-20V, -3A) **2SB1424 / 2SA1585S**

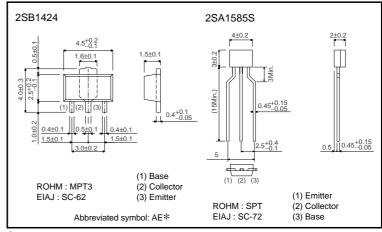
Features

- 1) Low VCE(sat). VCE(sat) = -0.2V (Typ.)(Ic/IB = -2A/-0.1A)
- 2) Excellent DC current gain characteristics.
- 3) Complements the 2SD2150 / 2SC4115S.

Structure

Epitaxial planar type PNP silicon transistor

●External dimensions (Unit : mm)



^{*} Denotes hre

● Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	-20	V	
Collector-emitter voltage		Vceo	-20	V	
Emitter-base voltage		VEBO	-6	V	
Collector current	2SB1424	lc .	-3	А	
	2SA1585S	ic	-2		
		Іср	-5	A(Pulse) *	
Collector power dissipation	2SB1424	Pc	0.5	w	
	2SA1585S		0.4		
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to 150	°C	

^{*} Single pulse Pw=10ms

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-20	_	_	V	Ic= -50μA
Collector-emitter breakdown voltage	BVceo	-20	_	_	V	Ic=-1mA
Emitter-base breakdown voltage	ВVево	-6	_	_	V	I _E = −50μA
Collector cutoff current	Ісво	_	_	-0.1	μΑ	VcB= -20V
Emitter cutoff current	ІЕВО	_	_	-0.1	μΑ	V _{EB} = -5V
Collector-emitter saturation voltage	VCE(sat)	_	_	-0.5	V	Ic/I _B = -2A/ -0.1A
DC current transfer ratio	hfe	120	_	390	_	Vce= -2V, Ic= -0.1A
Transition frequency	f⊤	_	240	_	MHz	Vce= -2V, Ie=0.5A, f=100MHz
Output capacitance	Cob	_	35	_	pF	Vcb= -10V, Ie=0A, f=1MHz

●Packaging specifications and hFE

		Package	Taping	
		Code	TP	T100
Туре	hfe	Basic ordering unit (pieces)	5000	1000
2SA1585S	QR		0	_
2SB1424	QR		-	0

hre values are classified as follows:

Item	Q	R
hfe	120 to 270	180 to 390

•Electrical characteristic curves

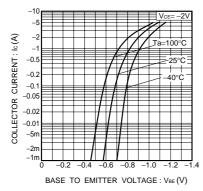


Fig.1 Grounded emitter propagation characteristics

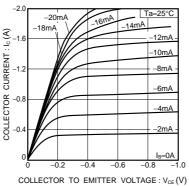
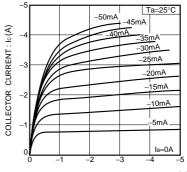
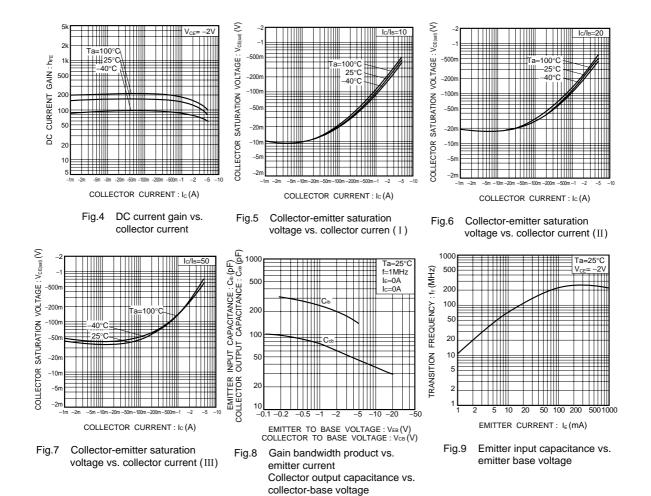


Fig.2 Grounded emitter output characteristics (I)



COLLECTOR TO EMITTER VOLTAGE: $V_{CE}\left(V\right)$

Fig.3 Grounded emitter output characteristics (II)



ROHM

Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any
 means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the
 product described in this document are for reference only. Upon actual use, therefore, please request
 that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or
 otherwise dispose of the same, no express or implied right or license to practice or commercially
 exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.



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