Low Vce(sat) Transistor (-20V, -3A)

2SB1424 / 2SA1585S

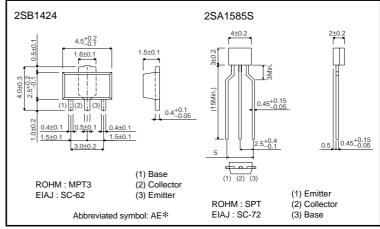
Features

- 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	144	
	2SA1585S		0.4	W	
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

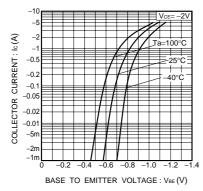


Fig.1 Grounded emitter propagation characteristics

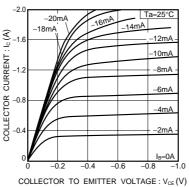
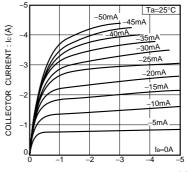
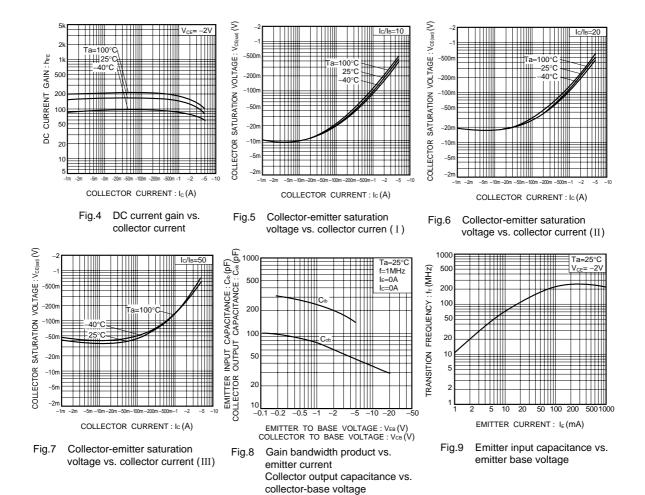


Fig.2 Grounded emitter output characteristics (I)



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

Fig.3 Grounded emitter output characteristics (II)



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