Low-frequency Transistor (-80V, -0.5A) 2SB1198K

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

Features

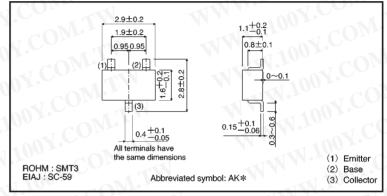
1) Low VCE(sat).

 $V_{CE(sat)} = -0.2V \text{ (Typ.)}$ (Ic/I_B = -0.5A / -50mA)

- 2) High breakdown voltage. $BV_{CEO} = -80V$
- 3) Complements the 2SD1782K.
- Structure

Epitaxial planar type PNP silicon transistor

External dimensions (Unit:s mm)



* Denotes hre

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-80	V
Collector-emitter voltage	VCEO	-80	V
Emitter-base voltage	VEBO	-5	CV
Collector current	lc	-0.5	A
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	150	C O
Storage temperature	Tstg	-55~ + 150	°C

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-80	=	11 40	٧	Ic=-50 μ A
Collector-emitter breakdown voltage	BVceo	-80		-	V	Ic=-2mA
Emitter-base breakdown voltage	ВУЕВО	-5	-	11-7	٧	I _E =-50 μ A
Collector cutoff current	Ісво	_		-0.5	μΑ	V _{CB} =-50V
Emitter cutoff current	ТЕВО	_		-0.5	μΑ	V _{EB} =-4V
Collector-emitter saturation voltage	VCE(sat)	_	-0.2	-0.5	V	Ic/I _B =-0.5A/-50mA
DC current transfer ratio	hFE	120	-1	390		VcE=-3V, Ic=-0.1A
Transition frequency	fτ	_	180		MHz	VcE=-10V, IE=50mA, f=100MHz
Output capacitance	Cob	_	11	M -	pF	V _{CB} =-10V, I _E =0A, f=1MHz

(96-136-B93)



Transistors 2SB1198K

●Packaging specifications and hfe

		21 1117	
	W	Package	Taping
		Code	T146
Туре	hfe	Basic ordering unit (pieces)	3000
2SB1198K	QR	100	

hee values are classified as follows:

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

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Electrical characteristic curves

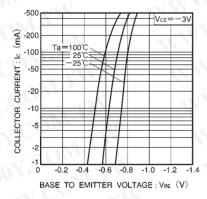


Fig.1 Grounded emitter propagation characteristics

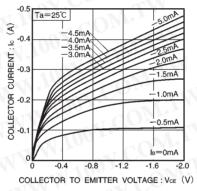


Fig.2 Grounded emitter output characteristics

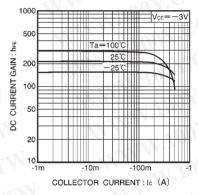


Fig.3 DC current gain vs. collector current

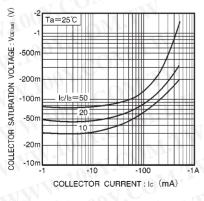


Fig.4 Collector-emitter saturation voltage vs. collector current (I)

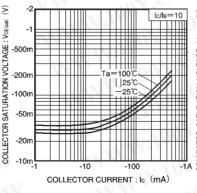


Fig.5 Collector-emitter saturation voltage vs. collector current (II)

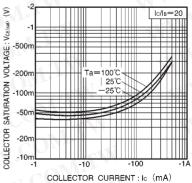
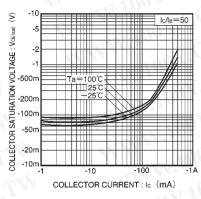
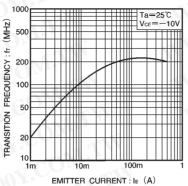


Fig.6 Collector-emitter saturation voltage vs. collector current (Ⅲ)

Transistors 2SB1198K





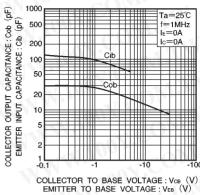


Fig.7 Collector-emitter saturation voltage vs. collector current (IV)

Fig.8 Gain bandwidth product vs. emitter current

Fig.9 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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Appendix

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