Transistors

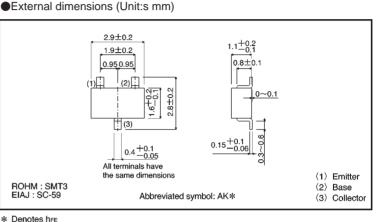
Low-frequency Transistor (-80V, -0.5A) 2SB1198K

Features

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

Structure

Epitaxial planar type PNP silicon transistor



• 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	V
Collector current	lc	-0.5	А
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	Ĵ

•Electrical characteristics (Ta = 25° C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВVсво	-80	-	-	V	$I_{\rm C} = -50 \mu \text{A}$
Collector-emitter breakdown voltage	BVCEO	-80	—	_	V	Ic=-2mA
Emitter-base breakdown voltage	ВVево	-5	-	-	V	$I_E = -50 \ \mu A$
Collector cutoff current	Ісво	_	-	-0.5	μA	V _{CB} =-50V
Emitter cutoff current	Іево	_	-	-0.5	μA	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	-	390	_	$V_{CE} = -3V, I_C = -0.1A$
Transition frequency	fт	-	180	-	MHz	V _{CE} =-10V, I _E =50mA, f=100MHz
Output capacitance	Cob	_	11	_	pF	V_{CB} =-10V, IE=0A, f=1MHz

(96-136-B93)



Transistors

2SB1198K

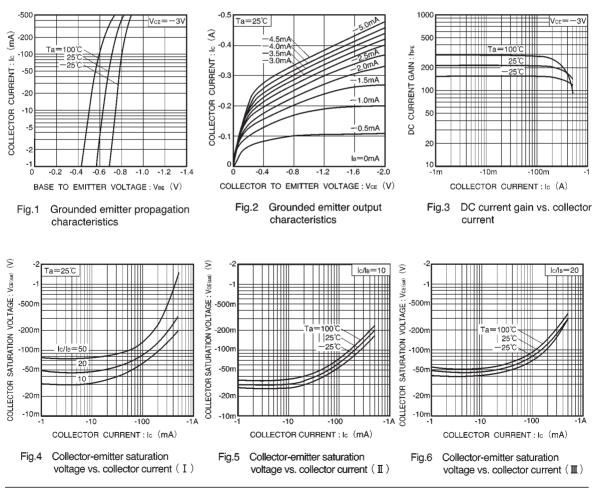
Packaging specifications and hre

		Package	Taping
		Code	T146
Туре	hfe	Basic ordering unit (pieces)	3000
2SB1198K	QR		0

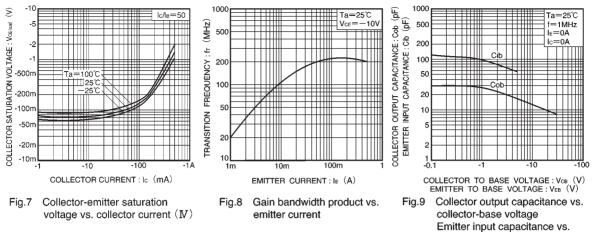
hFE values are classified as follows :

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

Electrical characteristic curves







emitter-base voltage



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