Transistors

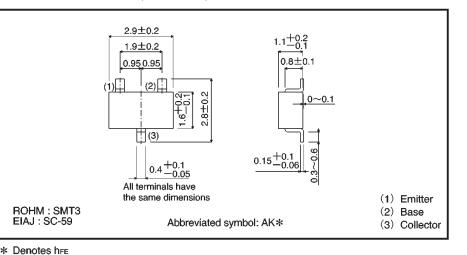
Low-frequency Transistor (-80V, -0.5A) 2SB1198K

External dimensions (Unit:s mm)

Features

- 1) Low V_{CE(sat)}. V_{CE(sat)} = -0.2V (Typ.) (I_C / I_B = -0.5A / -50mA)
- 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	Ĵ
Storage temperature	Tstg	-55~+150	Ĵ

•Electrical characteristics (Ta = 25° C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-80	_	-	V	$I_{\rm C} = -50 \mu \text{A}$
Collector-emitter breakdown voltage	BVCEO	-80	-	_	V	Ic=-2mA
Emitter-base breakdown voltage	BVebo	-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/IB=-0.5A/-50mA
DC current transfer ratio	hfe	120	—	390	_	Vce=-3V, Ic=-0.1A
Transition frequency	f⊤	_	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

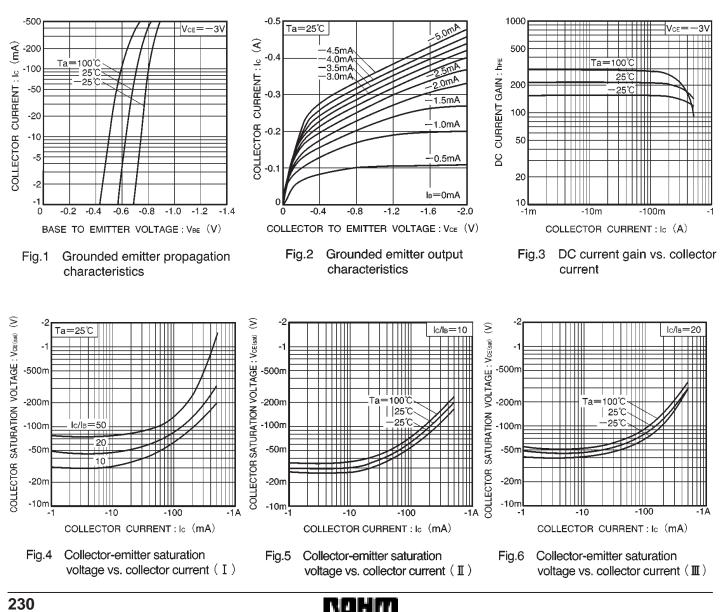
Packaging specifications and hre

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

hFE values are classified as follows :

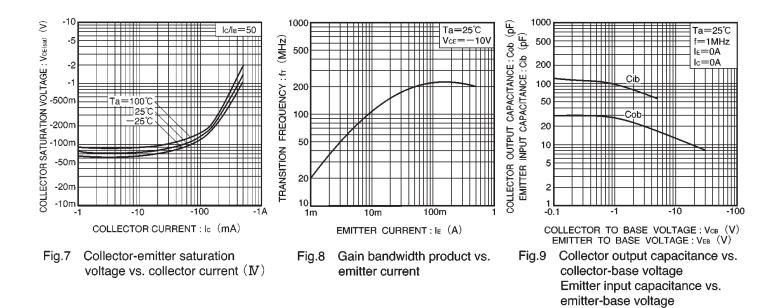
ltem	Q	R
h _{FE}	120~270	180~390

Electrical characteristic curves



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Transistors



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