# Low Frequency Amplifier (-12V, -2A) 2SB1697

### Features

$$\label{eq:low_VCE(sat)} \begin{split} &Low \; V_{CE(sat)} \leq -180mV \\ &(Ic \; /I_B = -1A/-50mA) \end{split}$$



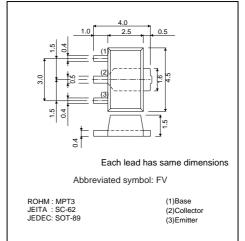
Packaging specifications
Package

Code

Basic ordering unit (pieces)

Туре

2SB1697



### ●Absolute maximum ratings (Ta=25°C)

	-	-	
Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-15	V
Collector-emitter voltage	VCEO	-12	V
Emitter-base voltage	Vebo	-6	V
Collector current	lc	-2	A(DC)
		-4	A(Pulse)*1
Collector power dissipation	Pc	500	mW*2
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
*1 Single pulse, Pw=1ms			

\*1 Single pulse, Pw=1ms

 $\ast 2\,\text{When}$  mounted on a 40x40x0.7 mm ceramic board.

### •Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-15	-	-	V	Ic=-10μA
Collector-emitter breakdown voltage	BVCEO	-12	-	-	V	Ic=-1mA
Emitter-base breakdown voltage	ВVево	-6	-	-	V	Iε= -10μA
Collector cutoff current	Ісво	-	-	-100	nA	Vcb= -15V
Emitter cutoff current	Іево	-	-	-100	nA	Veb=-6V
Collector-emitter saturation voltage	VCE(sat)	-	-100	-180	mV	Ic/I <sub>B</sub> = -1A/ -50mA
DC current transfer ratio	hfe	270	-	680	-	Vce= -2V, Ic= -200mA*
Transition frequency	f⊤	-	360	-	MHz	Vce= -2V, Ie=200mA, f=100MHz*
Output capacitance	Cob	-	15	_	pF	Vcb=-10V, IE=0A, f=1MHz

\* Pulsed

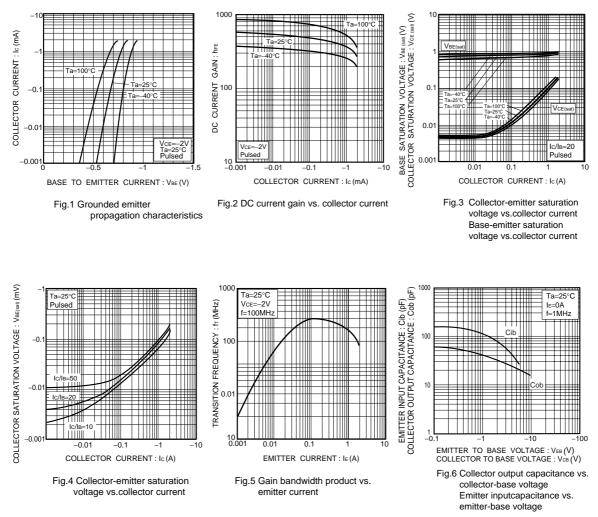


Taping T100

1000

# Transistors





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