General purpose amplification(-12V, -2A) **2SB1690K**

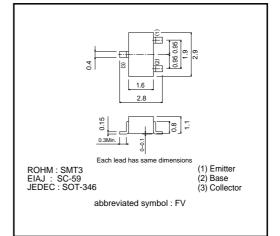
Applications

Low frequency amplifier Deiver

Features

- 1) A collector current is large.
- 2) Collector saturation voltage is low. $V_{CE(sat)} \leq -180 mV$ at Ic= $-1A / I_B$ = -50 mA

•External dimensions (Units : mm)



Absolute maximum ratings (Ta=25°C)

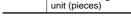
Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-15	V
Collector-emitter voltage	Vceo	-12	V
Emitter-base voltage	Vebo	-6	V
Collector current	lc	-2	A
	IC	-4	A*
Collector power dissipation	Pc	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

* Single pulse Pw=1ms

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-15	-	-	V	Ic=-10μA
Collector-emitter breakdown viltage	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
Collerctor-emitter saturation voltage	VCE(sat)	-	-120	-180	mV	Ic=-1А, Iв=-50mА
DC current transfer ratio	hfe	270	-	680	-	Vce=-2V, Ic=-200mA*
Transition frequency	fт	_	360	-	MHz	V_{CE} = -2V, I= -200mA , f=100MHz*
Output capacitance	Cob	-	15	-	pF	Vcb=-10V, Ie=0mA, f=1MHz

* Pulsed



Code

Туре

Packaging specifications
Package

Basic ordering

Taping

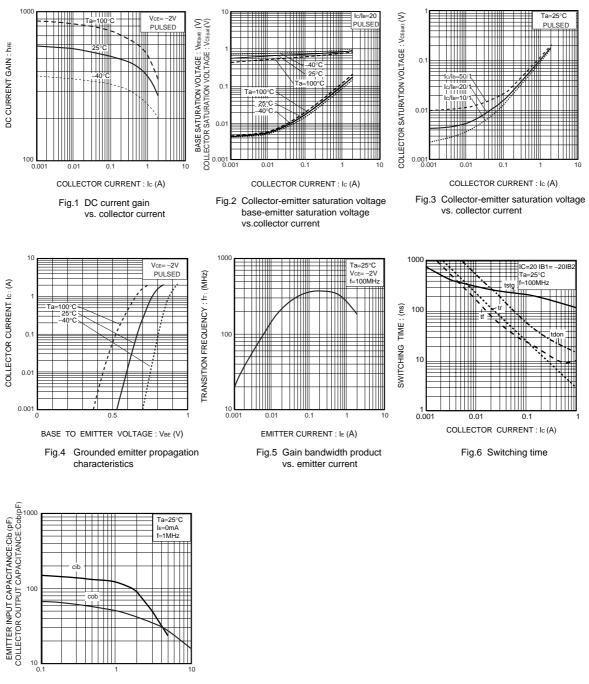
T146

3000

2SB1690K

Transistors

•Electrical characteristic curves



EMITTER TO BASE VOLTAGE : VEB (V)

Fig.7 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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