Transistors

General purpose amplification (–30V, –1A) **2SB1694**

Application

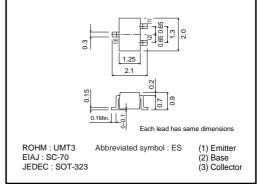
Low frequency amplifier Driver

Features

1) A collector current is large.

2) Collector saturation voltage is low. $V_{CE(sat)} \leq -380 mV$ At Ic = $-500 mA \ / \ I_B = -25 mA$

•External dimensions (Unit : mm)



Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-30	V
Collector-emitter voltage	Vceo	-30	V
Emitter-base voltage	Vebo	-6	V
Collector current	lc	-1	А
Collector current	ICP	-2	Α*
Power dissipation	Pc	200	mW
Junction temperature	Tj	150	°C
Range of 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	-30	-	-	V	Ic=-10μA			
Collector-emitter breakdown voltage	BVCEO	-30	-	-	V	Ic=-1mA			
Emitter-base breakdown voltage	ВУево	-6	-	-	V	Iε=-10μA			
Collector cutoff current	Ісво	-	-	-100	nA	Vcb=-30V			
Emitter cutoff current	Іево	-	-	-100	nA	Veb=-6V			
Collector-emitter saturation voltage	VCE(sat)	-	-180	-380	mV	Ic= -500mA, I _B = -25mA			
DC current gain	hfe	270	-	680	-	Vce=-2V, Ic=-100mA*1			
Transition frequency	fτ	-	320	-	MHz	Vce=-2V, Ie=100mA, f=100MHz *1			
Corrector output capacitance	Cob	-	7	-	pF	Vcb=-10V, IE=0A, f=1MHz			
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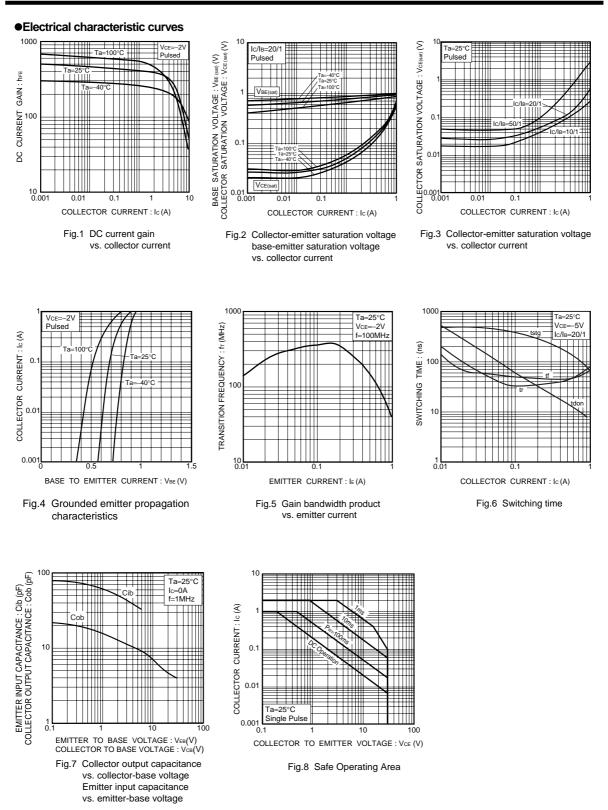
*1 Pulsed

Packaging specifications

	Package	Taping
	Code	T106
Туре	Basic ordering unit (pieces)	3000
2SB1694		0

Transistors

2SB1694



Appendix

Notes

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