Genera purpose amplification(–12V, –1.5A) 2SB1732

Application

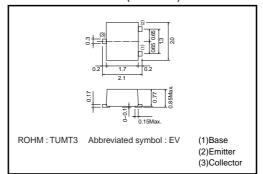
Low frequency amplifier Driver

● Features

- 1) A collector current is large.
- 2) Collector saturation voltage is low.

 $V_{CE(sat)} \leq -200 mV$ 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	-15	V
Collector-emitter voltage	Vceo	-12	V
Emitter-base voltage	Vево	-6	V
Collector current	Ic	-1.5	Α
Collector current	ICP	-3	A*1
Power dissipation	Pc	400	mW ^{*2}
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55 to +150	°C

^{*1}Single pulse, Pw=1ms

Packaging specifications

	Package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SB1732		0

●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	V _{EB} =-6V		
Collector-emitter saturation voltage	VCE(sat)	_	-85	-200	mV	Ic=-500mA, Iв=-25mA		
DC current gain	hfe	270	-	680	_	Vce=-2V, Ic=-200mA *		
Transition frequency	f⊤	-	400	_	MHz	Vce=-2V, Ie=200mA, f=100MHz *		
Corrector output capacitance	Cob	_	12	_	pF	Vcb=-10V, Ie=0A, f=1MHz		

^{*} Pulsed

^{*2}Each Terhinal Mounted on a Recommended Land

●Electrical characteristic curves

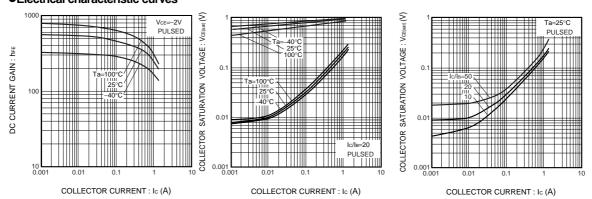


Fig.1 DC current gain vs. collector current

Fig.2 Collector-emitter saturation voltage vs.collector current

Fig.3 Base-emitter saturation voltage vs.collector current

Fig.4 Collector-emitter saturation voltage vs. collector current

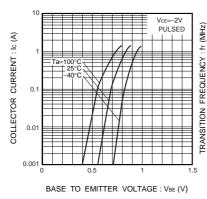


Fig.5 Grounded emitter propagation characteristics

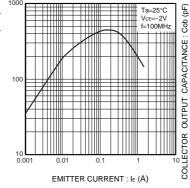


Fig.6 Gain bandwidth product vs. emitter current

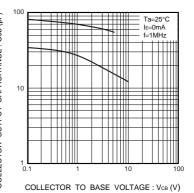


Fig.7 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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