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

Application

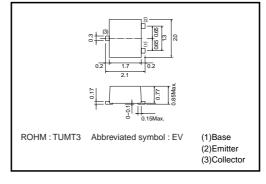
Low frequency amplifier Driver

Features

1) A collector current is large.

2) Collector saturation voltage is low. $V_{CE(sat)} \le -200 mV$ 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	Vebo	-6	V
Collector current	lc	-1.5	A
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

*1Single pulse, Pw=1ms

*2Each Terhinal Mounted on a Recommended Land

•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)	-	-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

Packaging specifications

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

2SB1732

Transistors

•Electrical characteristic curves

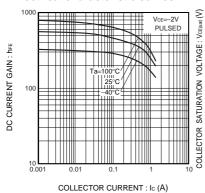
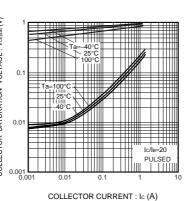
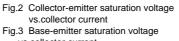
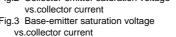


Fig.1 DC current gain vs. collector current







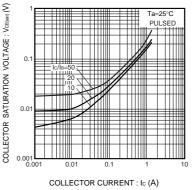
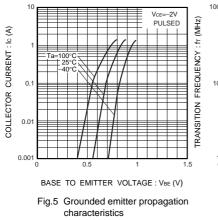


Fig.4 Collector-emitter saturation voltage vs. collector current



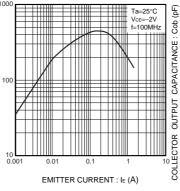


Fig.6 Gain bandwidth product vs. emitter current

100			-				<u> </u>	<		Ta=25°C I∈=0mA f=1MHz						
		-		+		<										
10									/							
1 0.	.1				1				1	0					1(00

COLLECTOR TO BASE VOLTAGE : VCB (V)

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

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