Low frequency amplifier

2SB1705

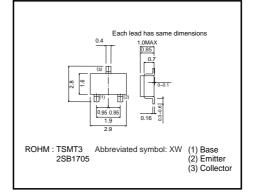
Application

Low frequency amplifier Driver

Features

1) A collector current is large. 2) $V_{CE(sat)} \le -250 mV$ At IC=-1.5A / IB=-30mA

•External dimensions (Unit : mm)



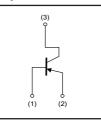
●Absolute maximum ratings (Ta=25°C)

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	-3	А
	Іср	-6	A*1
Power dissipation	Pc	500	mW*2
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55 to +150	°C

*1Single pulse, Pw=1ms

*2Each Termminal Mounted on a Recommended

Equivalent circuit



•Electrical characteristics (Ta=25°C)

Symbol	Min.	Тур.	Max.	Unit	Conditions
ВУсво	-15	-	-	V	Ic=-10μA
BVCEO	-12	-	_	V	Ic=-1mA
ВVево	-6	-	-	V	$I_E = -10\mu A$
Ісво	-	-	-100	nA	Vcb=-15V
Іево	-	-	-100	nA	Veb=-6V
VCE(sat)	-	-120	-250	mV	Ic= –1.5А, Iв= –30mА
hfe	270	-	680	-	Vce= -2V, Ic= -500mA*
fт	-	280	-	MHz	Vce=-2V, Ie=500mA, f=100MHz*
Cob	-	30	_	рF	Vcb=-10V, Ie=0A, f=1MHz
	BVCEO BVEBO ICBO IEBO VCE(sat) hFE fT	BVceo -12 BVebo -6 Icbo - Iebo - VcE(sat) - hFE 270 fr -	BVceo -12 - BVEBO -6 - ICBO - - IEBO - - VCE(sat) - -120 hFE 270 - ft - 280	BVceo -12 - - BVebo -6 - - Icbo - - -100 Iebo - - -100 Vce(sat) - - -120 hFe 270 - 680 fr - 280 -	BVCEO -12 - - V BVEBO -6 - - V ICBO - - -100 nA IEBO - - -100 nA VCE(sat) - -120 -250 mV hFE 270 - 680 - fr - 280 - MHz

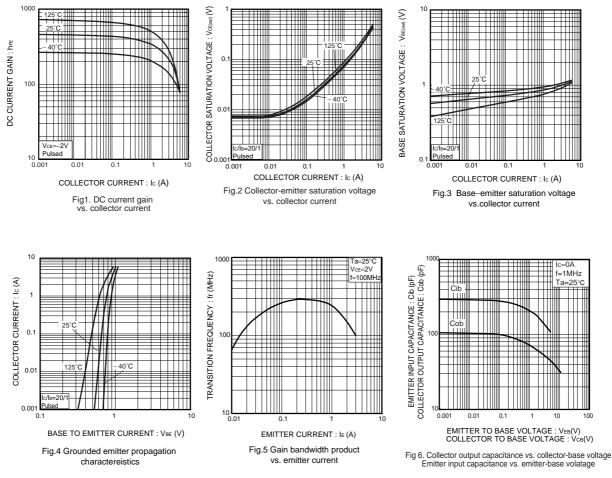
* Pulsed

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Packaging specifications

	Package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SB1705		0

•Electrical characteristic curves



Notes

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