Genera purpose amplification(-12V, -1.5A) **2SB1709**

Application

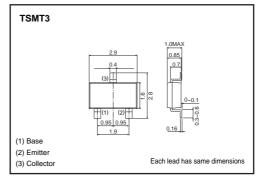
Low frequency amplifier Driver

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	Vebo	-6	V
Collector current	lc	-1.5	А
Collector current	ICP	-3	A*1
Power dissipation	Pc	500	mW*2
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55~+150	°C

Packaging specifications

	Package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SB1709		0

*1Single pulse, Pw=1ms

*2Each Terhinal Mounted on a Recommended Land

•Electrical characteristics (Ta=25°C)

Symbol	Min.	Тур.	Max.	Unit	Conditions
ВУсво	-15	-	-	V	Ic=-10μA
BVCEO	-12	-	-	V	Ic=-1mA
ВVево	-6	-	-	V	Ιε=-10μA
Ісво	-	-	-100	nA	Vсв=-15V
Іево	-	-	-100	nA	Veb=-6V
VCE(sat)	-	-85	-200	mV	Ic=-500mA, IB=-25mA
hfe	270	-	680	-	Vce=-2V, Ic=-200mA *
f⊤	-	400	_	MHz	Vce=-2V, Ie=200mA, f=100MHz *
Cob	-	12	-	pF	Vcb=-10V, Ie=0A, f=1MHz
	BVCBO BVCEO BVEBO ICBO IEBO VCE(sat) hFE fr	BVсво -15 BVсео -12 BVево -6 Iсво - Iево - Vce(sat) - hre 270 fr -	ВVсво -15 - BVсео -12 - BVево -6 - Icbo - - Icbo - - Vce(sat) - -85 hFE 270 - fr - 400	BVcBo -15 - - BVcEo -12 - - BVebo -6 - - BVebo -6 - - Icbo - - -100 Iebo - - -100 VcE(sat) - -85 -200 hFE 270 - 680 fr - 400 -	BVcBo -15 - - V BVcEo -12 - - V BVEBO -6 - - V BVEBO -6 - - V ICBO - - -100 nA IEBO - - -100 nA VCE(sat) - -85 -200 mV hFE 270 - 680 - fr - 400 - MHz

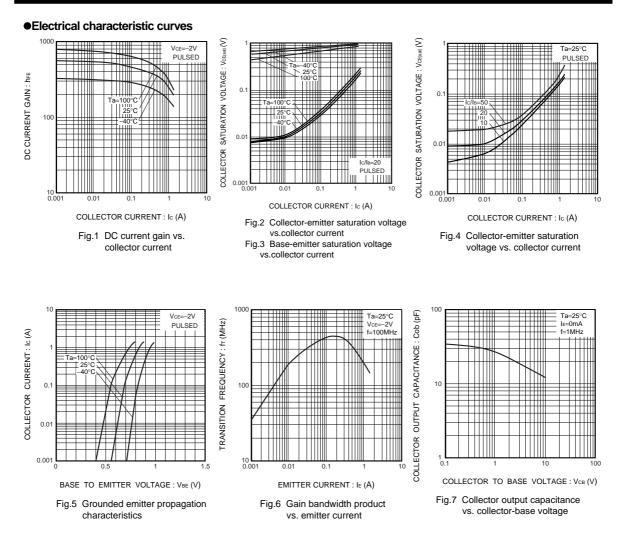
* Pulsed



1/2

2SB1709

Transistors



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