Genera purpose amplification(-12V, -1.5A) **2SB1689**

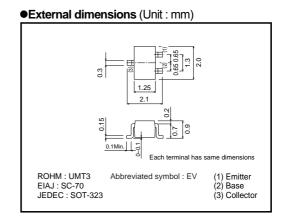
Application

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 = $-500 mA / I_B = -25 mA$



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Symbol Limits	
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	Іср	-3	A*1
Power dissipation	Pc	200	mW ^{*2}
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55 to +150	°C

*1 Single pulse, Pw=1ms

*2 Each terminal mounted on a recommended land pattern

•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	ВУево	-6	-	-	V	IE=-10μA
Collector cutoff current	Ісво	-	_	-100	nA	Vcb=-15V
Emitter cutoff current	Іево	-	-	-100	nA	Veb=-6V
Collector-emitter saturation voltage	VCE(sat)	-	-110	-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
D.L. J						

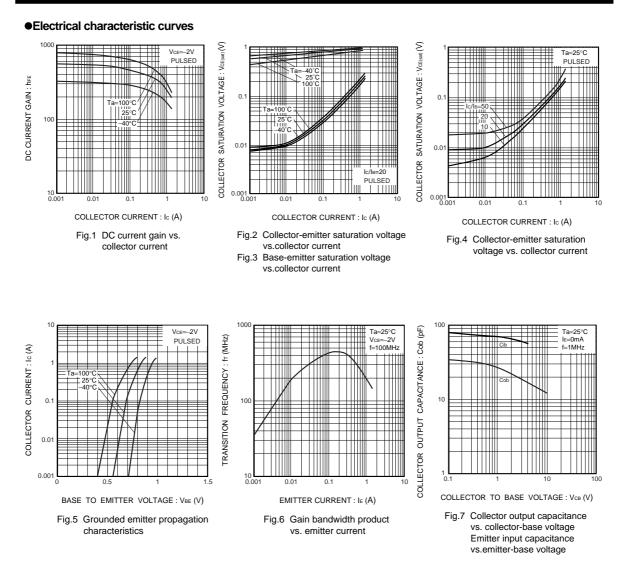
* Pulsed

Packaging specifications

	Package	Taping
Туре	Code	T106
	Basic ordering unit (pieces)	3000
2SB1689		0

2SB1689

Transistors



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