Low frequency amplifier

2SD2672

Application

Low frequency amplifier Driver

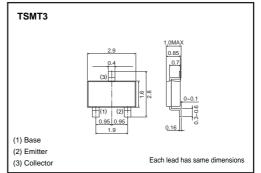
Features

1) A collector current is large. (4A)

2) VCE(sat) \leq 250mV

At Ic = 2A/IB = 40mA

•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	4	А
	Іср	8	A*1
Power dissipation	Pc	500	mW
		1 *2	W
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55 to +150	°C

*1 Single pulse, Pw=1ms *2 Mounted on a 25×25×t0.8mm Ceramic substrate

•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	Ιε=10μΑ
Collector cutoff current	Ісво	-	_	100	nA	Vcb=15V
Emitter cutoff current	Іево	-	_	100	nA	Veb=6V
Collector-emitter saturation voltage	VCE(sat)	-	70	250	mV	Ic=2A, IB=40mA
DC current gain	hfe	270	-	680	-	Vce=2V, Ic=200mA*
Transition frequency	f⊤	-	250	_	MHz	Vce=2V, Ie=-200mA, f=100MHz*
Corrector output capacitance	Cob	-	60	-	pF	Vcb=10V, IE=0A, f=1MHz
* Pulsed						

* Pulsed

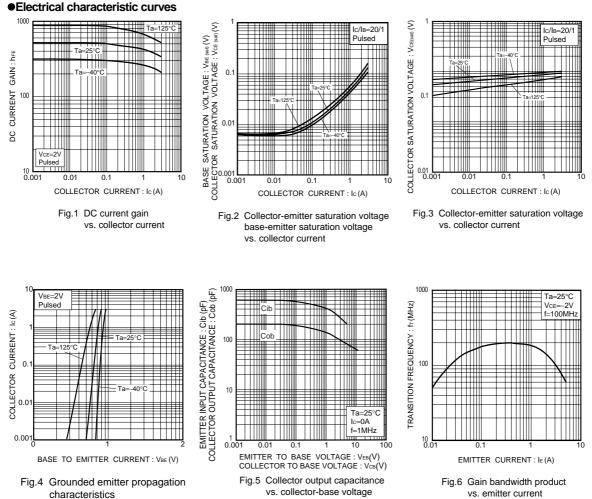
Packaging specifications

	Package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SD2672		0

1/2

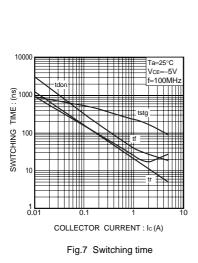
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Transistors



Emitter input capacitance vs. emitter-base voltage

characteristics



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