Low frequency amplifier 2SD2671

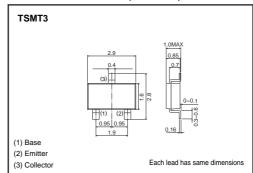
Application

Low frequency amplifier Driver

● Features

1) A collector current is large. 2) V_{CE(sat)}: max. 370mV At $Ic=1.5A/I_B=75mA$

●External dimensions (Unit: mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit		
Collector-base voltage	Vсво	30	V		
Collector-emitter voltage	Vceo	30	V		
Emiter-base voltage	VEBO	6	V		
Collector current	Ic	2	Α		
Collector current	Іср	4	A*1		
Dawar dissination	Pc	500	mW		
Power dissipation	PC	1*2	W		
Junction temperature	Tj	150	°C		
Range of storage temperautre	Tstg	-55 to +150	°C		
10: 1 1 5 1					

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltae	ВУсво	30	_	-	V	Ic=10μA
Collector-emitter breakdown voltae	BVceo	30	_	-	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	6	_	_	V	Iε=10μA
Collector cutoff current	Ісво	_	_	100	nA	Vcb=30V
Emitter cutoff current	ІЕВО	_	_	100	nA	V _{EB} =6V
Collector-emitter saturation voltage	VCE(sat)	_	180	370	mV	Ic=1.5A, Iв=75mA
DC current gain	hfe	270	_	680	_	Vce=2V, Ic=200mA*
Transition frequency	f⊤	_	280	_	MHz	Vce=2V, Ie=-200mA, f=100MHz*
Collector output capacitance	Cob	_	20	_	pF	Vcb=10V, IE=0A, f=1MHz

^{*} Pulsed

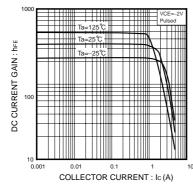


^{*1} Single pluse, Pw=1ms *2 Mounted on a 25×25× t0.8mm Ceramic substrate

Packaging specifications

	Package	Taping
Туре	Code	TL
	Basic ordering unit (Pieces)	3000
2SD2671		0

•Electrical characteristic curves



ODITECTOR SATURATION VOIT AGE 10 TO THE TOTAL SATURATION VOIT AGE

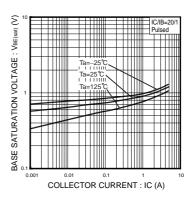


Fig.1 DC current gain vs. collector current

Fig.2 Collector-emitter saturation voltage base-emitter saturation voltage vs. collector current

Fig.3 Base-emitter saturation voltage vs. collector current

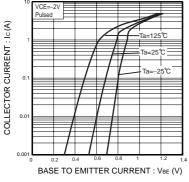


Fig.4 Grounded emitter propagation characteristics

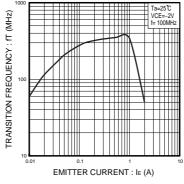


Fig.5 Gain bandwidth product vs. emitter current

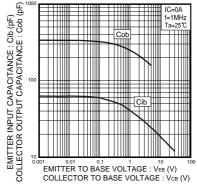


Fig.6 Collector output chapacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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Appendix1-Rev1.1