Transistors

Low frequency amplifier

2SD2671

Application

Low frequency amplifier Driver

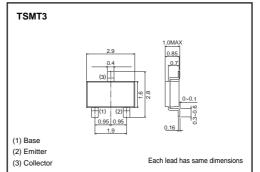
Features

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	lc	2	А
Collector current	Іср	4	A*1
Dewer discipation	D-	500	mW
Power dissipation	Pc	1*2	W
Junction temperature	Tj	150	°C
Range of storage temperautre	Tstg	-55 to +150	°C

*1 Single pluse, 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 voltae	ВУсво	30	-	-	V	Ic=10μA
Collector-emitter breakdown voltae	BVCEO	30	-	_	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	6	-	-	V	Ιε=10μA
Collector cutoff current	Ісво	-	-	100	nA	Vcb=30V
Emitter cutoff current	Іево	-	-	100	nA	Veb=6V
Collector-emitter saturation voltage	VCE(sat)	-	180	370	mV	Ic=1.5А, 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

ROHM

1/2

查询"2SD2671"供应商

Transistors

Packaging specifications

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

Electrical characteristic curves

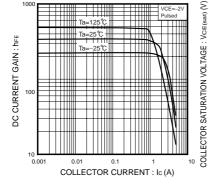
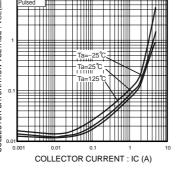


Fig.1 DC current gain vs. collector current



/IB=20

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

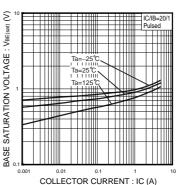
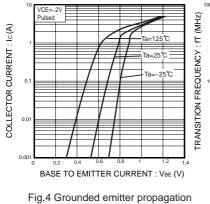


Fig.3 Base-emitter saturation voltage vs. collector current



characteristics

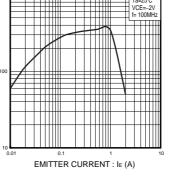


Fig.5 Gain bandwidth product vs. emitter current

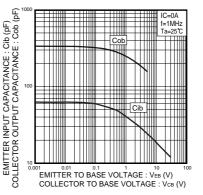


Fig.6 Collector output chapacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

Appendix

Notes

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