Low frequency amplifier

2SD2670

Application

Low frequency amplifier Driver

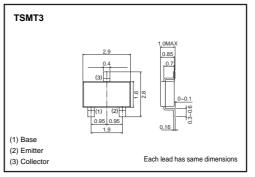
Features

1) A collector current is large.

2) V_{CE(sat)} : max.250mV

At Ic=1.5A / IB=30mA

•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	3	А
	Іср	6	A*1
Power siddipation	Pc	500	mW
Power siddipation	FC	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 25×25×10.8mm Ceramic substrate

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	BVEBO	6	-	-	V	Ιε=10μA
Collector cutoff current	Ісво	-	-	100	nA	Vcb=15V
Emitter cutoff current	Іево	-	-	100	nA	VEB=6V
Collector-emitter saturation voltage	VCE(sat)	-	120	250	mV	Ic=1.5А, Iв=30mА
DC current gain	hfe	270	_	680	_	Vce=2V, Ic=500mA*
Transition frequency	f⊤	-	360	-	MHz	Vce=2V, Ie=-500mA, f=100MHz*
Collector output capacitance	Cob	_	30	_	pF	Vcb=10V, IE=0A, f=1MHz

●Electrical characteristics (Ta=25°C)

* Pulse



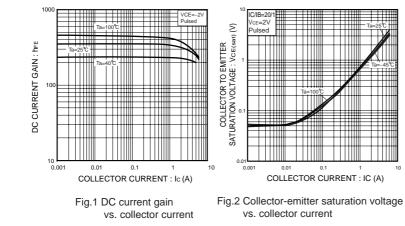
1/2

Transistors

Packaging specifications

	package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SD2670		0

•Electrical characteristic curves



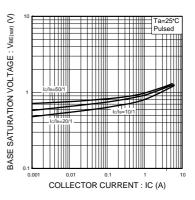


Fig.3 Base-emitter saturation voltage vs.collector current

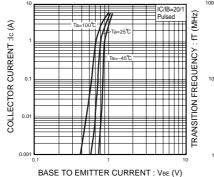
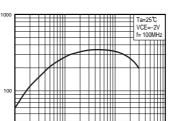


Fig.4 Grounded emitter propagation characteristics

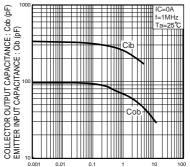


EMITTER CURRENT : IE (A)

Fig.5 Gain bandwidth product

vs. emitter current

0.1



EMITTER TO BASE VOLTAGE : VEB(V) COLLECTOR TO BASE VOLTAGE : VCB(V)

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

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Distribution Inventory

Part Number	2SD2670
Package	TSMT3
Unit Quantity	3000
Minimum Package Quantity	3000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes