Low frequency amplifier

2SD2662

Application

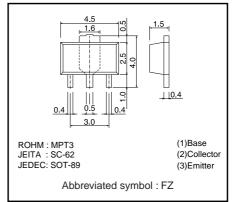
Low frequency amplifier Driver

Features

1) A collector current is large. 2) VCE(sat) \leq 350mV

At Ic = 1A/IB = 50mA

•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
Emitter-base voltage	Vebo	6	V
Collector current	lc	1.5	А
Collector current	ICP	3	A*1
Power dissipation	Pc	500	mW
	FC	2 *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 40×40× t0.7mm Ceramic substrate

Packaging specifications

	Package	Taping
Туре	Code	T100
	Basic ordering unit (pieces)	1000
2SD2662		0

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	30	-	-	V	Ic=10μA
Collector-emitter breakdown voltage	BVCEO	30	_	-	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	6	-	-	V	Ιε=10μA
Collector cut off current	Ісво	-	-	100	nA	Vcb=30V
Emitter cut off current	Іево	-	-	100	nA	VEB=6V
Collector-emitter saturation voltage	VCE(sat)	-	160	350	mV	Ic=1A, IB=50mA
DC current gain	hfe	270	_	680	-	Vce=2V, Ic=100mA*
Transition frequency	f⊤	-	330	-	MHz	Vce=2V, Ie=-100mA, f=100MHz*
Corrector output capacitance	Cob	-	11	_	pF	Vcb=10V, IE=0A, f=1MHz

* Pulsed



1/2

Transistors

•Electrical characteristic curves

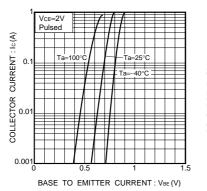
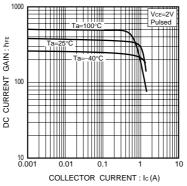
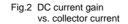


Fig.1 Grounded emitter propagation

characteristics





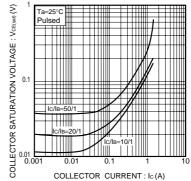


Fig.3 Collector-emitter saturation voltage vs. collector current

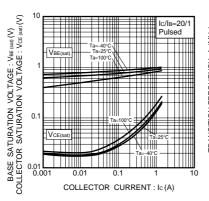


Fig.4 Collector-emitter saturation voltage base-emitter saturation voltage vs. collector current

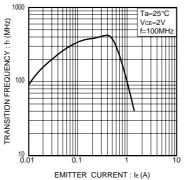
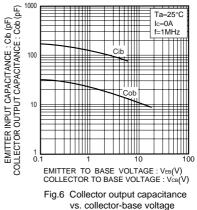
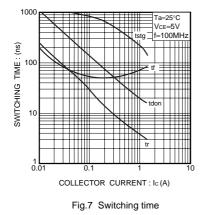


Fig.5 Gain bandwidth product vs. emitter current



Emitter input capacitance vs. emitter-base voltage



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