

Low frequency amplifier

2SD2662

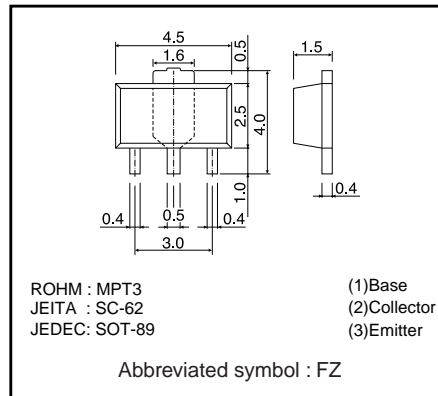
●Application

Low frequency amplifier
Driver

●Features

- 1) A collector current is large.
- 2) $V_{CE(sat)} \leq 350\text{mV}$
At $I_C = 1\text{A} / I_B = 50\text{mA}$

●Dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CB0}	30	V
Collector-emitter voltage	V_{CE0}	30	V
Emitter-base voltage	V_{EB0}	6	V
Collector current	I_C	1.5	A
	I_{CP}	3	A ^{*1}
Power dissipation	P_C	500	mW
		2 ^{*2}	W
Junction temperature	t_j	150	°C
Range of storage temperature	t_{stg}	-55 to +150	°C

*1 Single pulse, $P_w=1\text{ms}$

*2 Mounted on a 40×40×10.7mm Ceramic substrate

●Packaging specifications

Type	Package	Taping
	Code	T100
	Basic ordering unit (pieces)	1000
2SD2662		○

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CB0}	30	–	–	V	$I_C=10\mu\text{A}$
Collector-emitter breakdown voltage	BV_{CE0}	30	–	–	V	$I_C=1\text{mA}$
Emitter-base breakdown voltage	BV_{EB0}	6	–	–	V	$I_E=10\mu\text{A}$
Collector cut off current	I_{CBO}	–	–	100	nA	$V_{CB}=30\text{V}$
Emitter cut off current	I_{EBO}	–	–	100	nA	$V_{EB}=6\text{V}$
Collector-emitter saturation voltage	$V_{CE(sat)}$	–	160	350	mV	$I_C=1\text{A}, I_B=50\text{mA}$
DC current gain	h_{FE}	270	–	680	–	$V_{CE}=2\text{V}, I_C=100\text{mA}^*$
Transition frequency	f_T	–	330	–	MHz	$V_{CE}=2\text{V}, I_E=-100\text{mA}, f=100\text{MHz}^*$
Corrector output capacitance	C_{ob}	–	11	–	pF	$V_{CB}=10\text{V}, I_E=0\text{A}, f=1\text{MHz}$

* Pulsed

Transistors

●Electrical characteristic curves

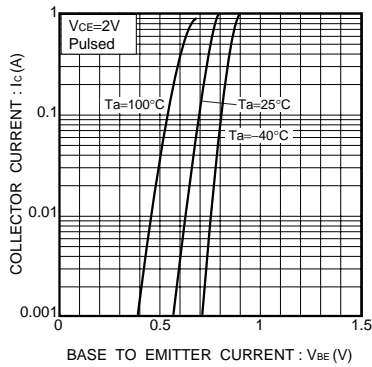


Fig.1 Grounded emitter propagation characteristics

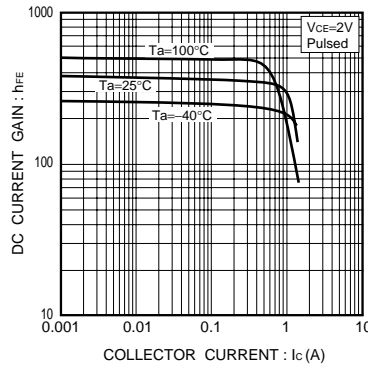


Fig.2 DC current gain vs. collector current

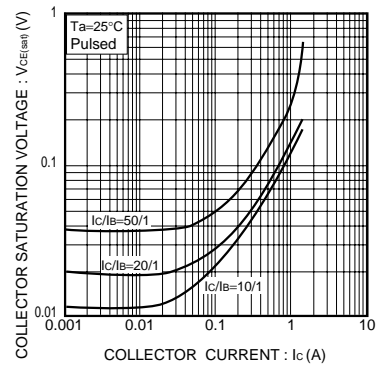


Fig.3 Collector-emitter saturation voltage vs. collector current

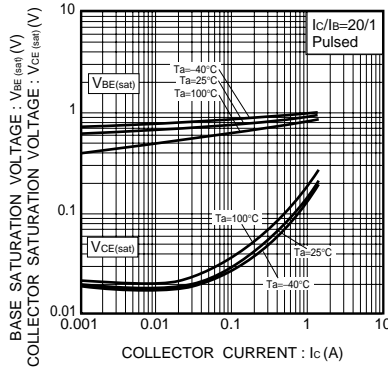


Fig.4 Collector-emitter saturation voltage base-emitter saturation voltage vs. collector current

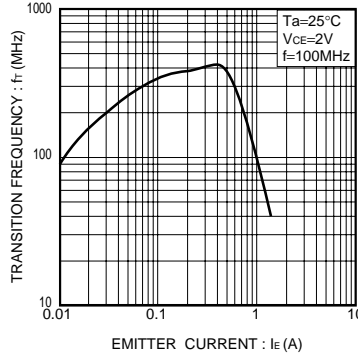


Fig.5 Gain bandwidth product vs. emitter current

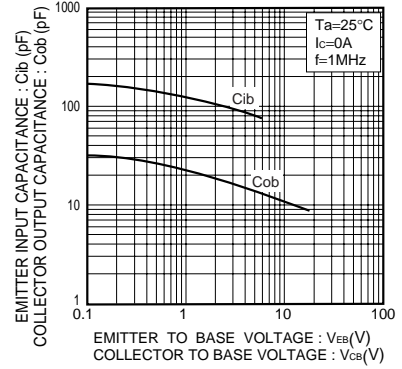


Fig.6 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

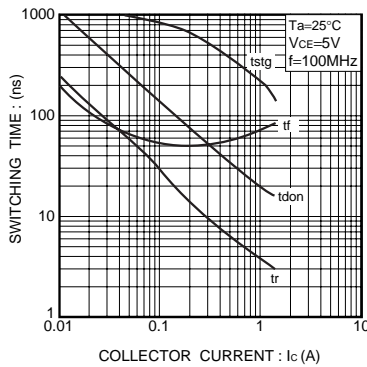


Fig.7 Switching time

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