General purpose amplification (12V, 1.5A)

2SD2674

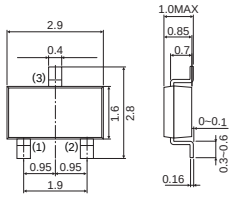
●Application
Low frequency amplifier

●Features
1) A collector current is large.
2) Collector saturation voltage is low.

$V_{CE(sat)} \leqq 200mV$
at $I_C = 500mA / I_B = 25mA$

●External dimensions (Unit : mm)

TSMT3



(1) Base
(2) Emitter
(3) Collector

Each lead has same dimensions

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CBO}	15	V
Collector-emitter voltage	V_{CEO}	12	V
Emitter-base voltage	V_{EBO}	6	V
Collector current	I_C	1.5	A
	I_{CP}	3	A *1
Power dissipation	P_C	500	mW
		1*2	W
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	−55 to +150	°C

*1 Single pulse, P_W=1ms
*2 Mounted on a 25×25×^{t}0.8mm Ceramic substrate

●Packaging specifications

Type	Package	Taping
	Code	TL
	Basic ordering unit (pieces)	3000
2SD2674		○

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CBO}	15	–	–	V	I_C=10μA
Collector-emitter breakdown voltage	BV_{CEO}	12	–	–	V	I_C=1mA
Emitter-base breakdown voltage	BV_{EBO}	6	–	–	V	I_E=10μA
Collector cutoff current	I_{CBO}	–	–	100	nA	V_{CB}=15V
Emitter cutoff current	I_{EBO}	–	–	100	nA	V_{EB}=6V
Collector-emitter saturation voltage	$V_{CE(sat)}$	–	85	200	mV	I_C/I_B=500mA/25mA
DC current gain	h_{FE}	270	–	680	–	V_{CE}/I_C=2V/200mA *
Transition frequency	f_T	–	400	–	MHz	V_{CE}=2V, I_E=−200mA, f=100MHz *
Collector output capacitance	Cob	–	12	–	pF	V_{CB}=10V, I_E=0A, f=1MHz

* Pulsed

●Electrical characteristic curves

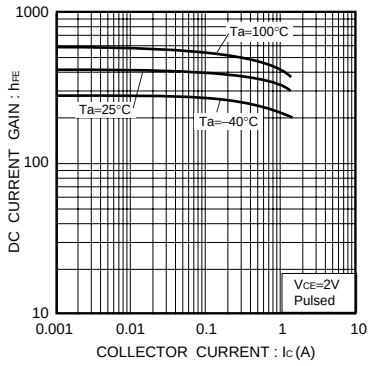


Fig.1 DC current gain vs. collector current

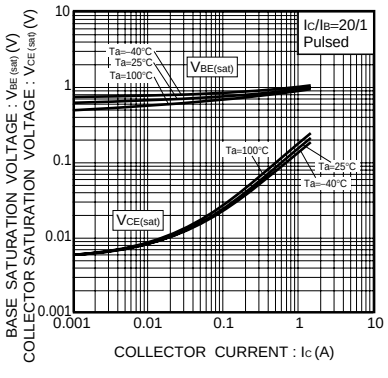


Fig.2 Collector-emitter saturation voltage base-emitter saturation voltage vs. collector current

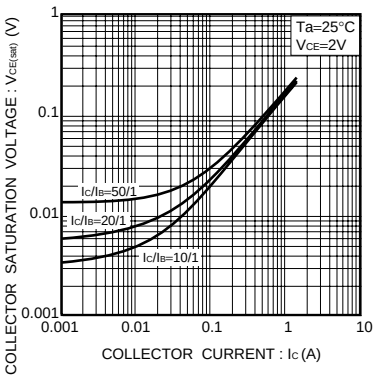


Fig.3 Collector-emitter saturation voltage vs. collector current

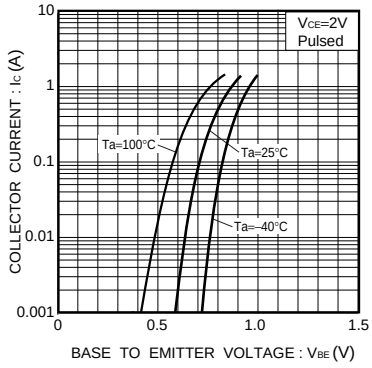


Fig.4 Grounded emitter propagation characteristics

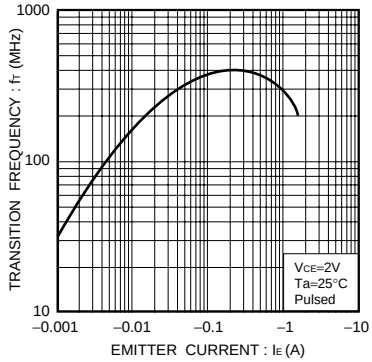


Fig.5 Gain bandwidth product vs. emitter current

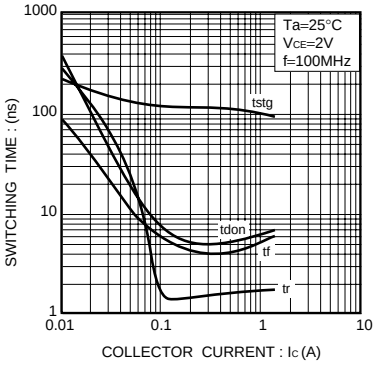


Fig.6 Switching time

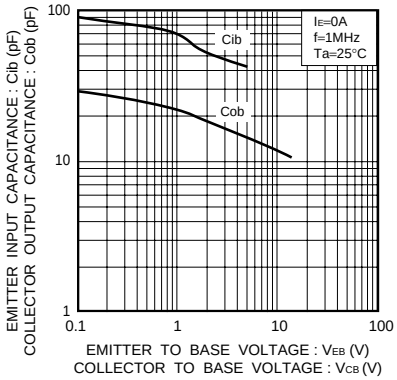


Fig.7 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

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