General purpose amplification (12V, 1.5A) 2SD2702

Application

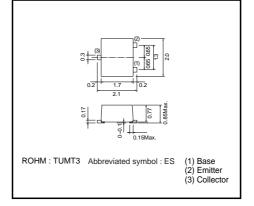
Low frequency amplifier

Features

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

$V_{\text{CE(sat)}} \! \leq \! 200mV$ at Ic = 500mA / I ${\scriptscriptstyle B}$ = 25mA

•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	1.5	A	
Collector current	Іср	3	A*1	
Power dissipation	Pc	0.4	- w	
	10	0.8*2		
Junction temperature	Tj	150	°C	
Range of storage temperature	Tstg	-55 to +150	°C	

*1 Single pulse, Pw=1ms *2 Mounted on a $25 \times 25 \times t_{0.8}$ mm Ceramic substrate

•Electrical characteristics (Ta=25°C)

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	ВVево	6	-	_	V	Ι _Ε =10μΑ
Collector cutoff current	Ісво	-	-	100	nA	Vcb=15V
Emitter cutoff current	Іево	-	-	100	nA	Veb=6V
Collector-emitter saturation voltage	VCE(sat)	-	85	200	mV	Ic/IB=500mA/25mA
DC current gain	hfe	270	-	680	_	Vce/lc=2V/200mA *
Transition frequency	f⊤	-	400	-	MHz	Vce=2V, Ie=-200mA, f=100MHz *
Collector output capacitance	Cob	-	12	-	pF	Vсв=10V, Ie=0A, f=1MHz

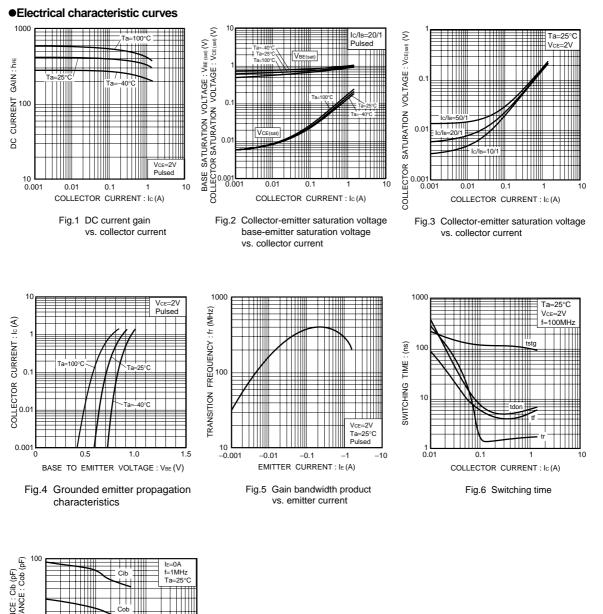
* Pulsed

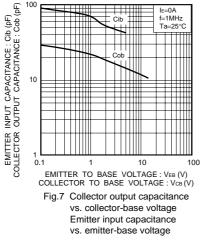


	Package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SD2702		0

2SD2702

Transistors





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