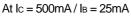
General purpose amplification (30V, 1A) **2SD2703**

Application

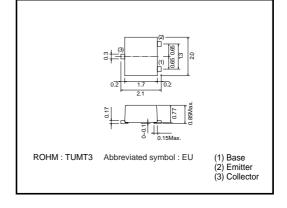
Low frequency amplifier

Features

- 1) A collector current is large.
- 2) Collector saturation voltage is low.
- $V_{CE(sat)} \leq 350 \text{mV}$



•External dimensions (Unit : mm)



Absolute maximum ratings (Ta=25°C)

Parameter	Symbol Limits		Unit	
Collector-base voltage	Vсво	Vсво 30		
Collector-emitter voltage	VCEO	30	V	
Emitter-base voltage	Vebo	6	V	
Collector ourrent	lc	1	A	
Collector current	Іср	2	A *1	
Dower dissinction	Pc	0.4	w	
Power dissipation	PC	0.8 *2		
Junction temperature	Tj	150	°C	
Range of storage temperature	Tstg	-55 to +150	°C	
*10: I I D I				

*1Single pulse, Pw=1ms *2Mounted on a 25×25×10.8mm Ceramic substrate

•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	Ι _Ε =10μΑ
Collector cutoff current	Ісво	-	-	100	nA	Vcb=30V
Emitter cutoff current	Іево	-	-	100	nA	Veb=6V
Collector-emitter saturation voltage	VCE(sat)	-	120	350	mV	Ic/IB=500mA/25mA
DC current gain	hfe	270	-	680	_	Vce/Ic=2V/100mA *
Transition frequency	f⊤	-	320	-	MHz	Vce=2V, Ie=-100mA, f=100MHz *
Corrector output capacitance	Cob	-	7	-	pF	Vcb=10V, Ie=0A, f=1MHz

* Pulsed

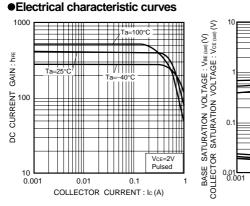
Packaging specifications

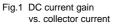
	Package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SD2703		0

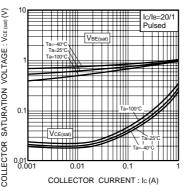
Rev.A 1/2

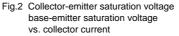
2SD2703

Transistors









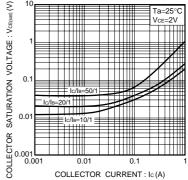


Fig.3 Collector-emitter saturation voltage vs. collector current

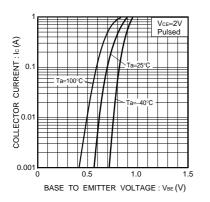


Fig.4 Grounded emitter propagation characteristics

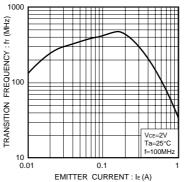
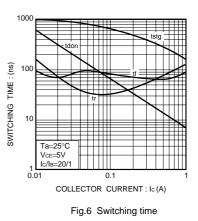
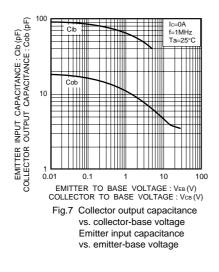


Fig.5 Gain bandwidth product vs. emitter current





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