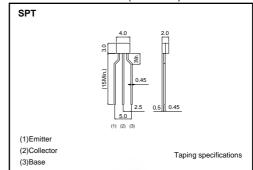
High-voltage Amplifier Transistor (-210V, -30mA) 2SA821S

Features

- 1) High breakdown voltage, (VCER = -210V)
- 2) Complements the 2SC1651S.

●External dimensions (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

					(3)Base
●Absolute maximum ra	atings (7	「a=25°C)		•	4.4
Parameter	Symbol	Limits	Unit		The state of the s
Collector-base voltage	Vсво	-210	٧		20次1
Collector-emitter voltage	Vces	-210	V	*	75
Emitter-base voltage	Vево	-5	V		-01
Collector current	lc	-30	Α		G
Collector power dissipation	Pc	250	W	1	
Junction temperature	Tj	150	°C	1	
Storage temperature	Tstg	-55 to +150	°C		

^{*} R_{BE}=10kΩ

●Electrical characteristics (Ta=25°C)

	- /					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-210	-	-	V	Ic= -50μA
Collector-emitter breakdown voltage	BVceo	-210	-	-	V	Ic= -100μA, R _{BE} =10kΩ
Emitter-base breakdown voltage	ВУево	-5	-	-	V	I _E = -50μA
Collector cutoff current	Ісво	-	-	-	μΑ	VcB=-150V
Emitter cutoff current	Ієво	-	-	-1	μΑ	V _{EB} = -4.5V
Collector-emitter saturation voltage	VcE(sat)	-	-	-1	V	Ic/I _B = -2mA/-0.2mA
DC current transfer ratio	hfe	82	-	-1	-	Vce=-3V, Ic=-5A
Transition frequency	f⊤	-	50	270	MHz	Vc==-5V, Ie=2mA, f=30MHz
Output capacitance	Cob	_	8	_	pF	Vce= -10V , Ie=0A , f=1MHz

Packaging specifications and hfe

Туре	2SA821S
Package	SPT
hfe	PQ
Code	TP
Basic ordering unit (pieces)	5000

Fig.1 Ground emitter propagation characteristics

Fig.2 Ground emitter output characteristics (I) Fig.3 Ground emitter output characteristics (II)

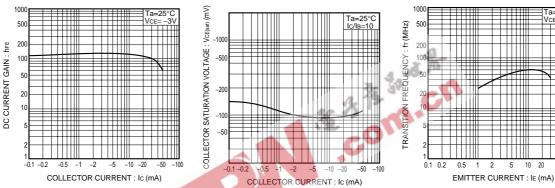


Fig.4 DC current gain vs. collector current

Fig.5 Collector-emitter saturation voltage vs. collector current

Fig.6 Gain bandwidth product vs. emitter current

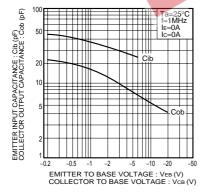


Fig.7 Emitter input capacitance vs. emitter-base voltage Collector output capacitance vs. collector-base voltage

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